

Fig. 1

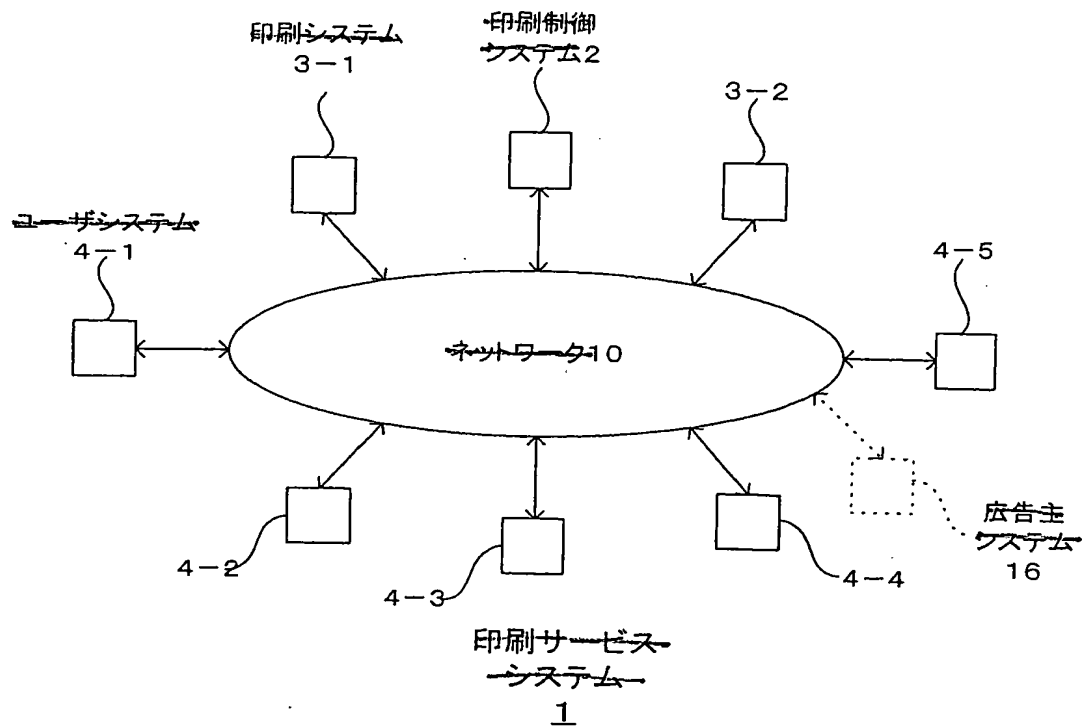
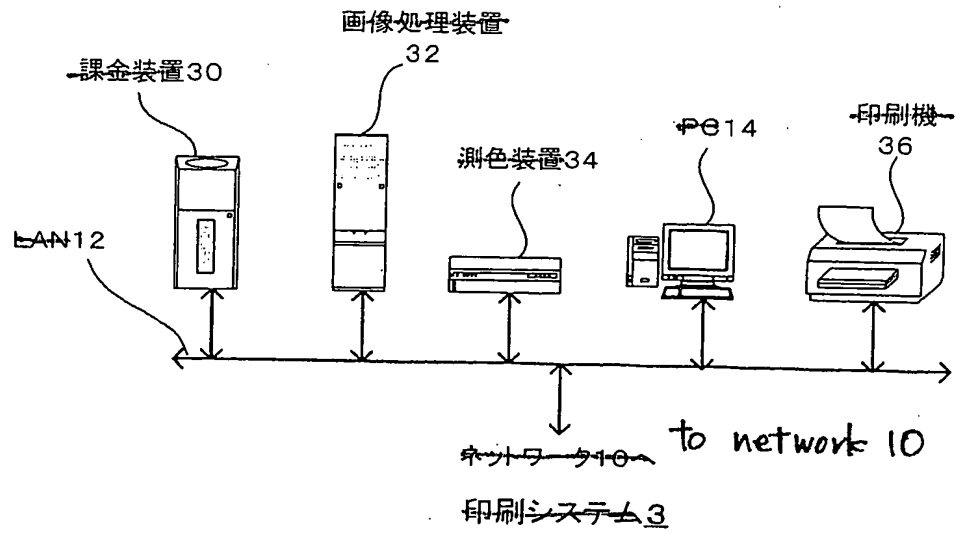


Fig. 2

2/52



【図3】 Fig. 3

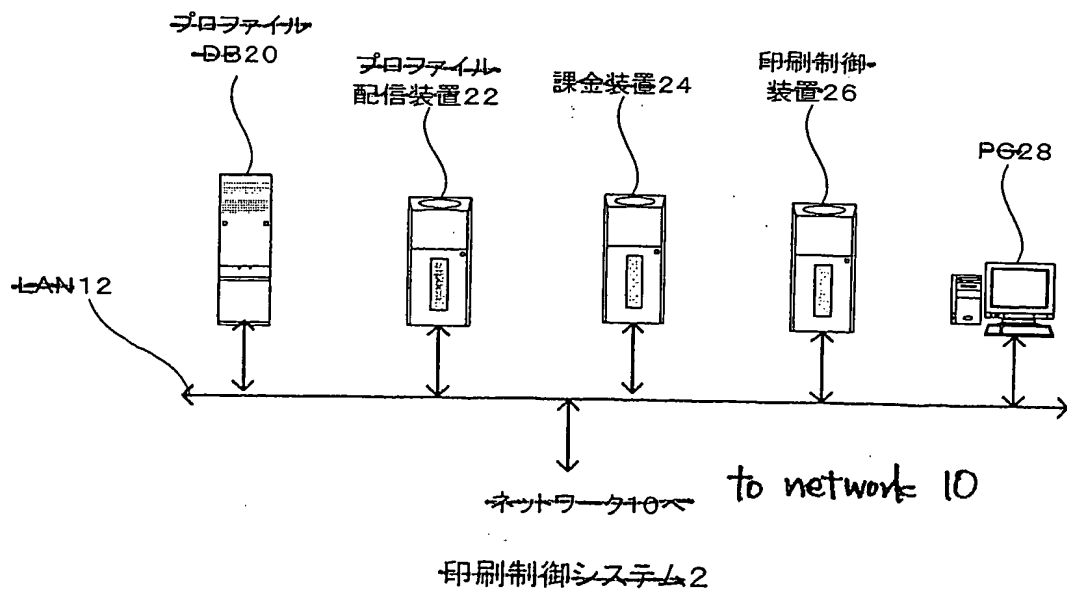
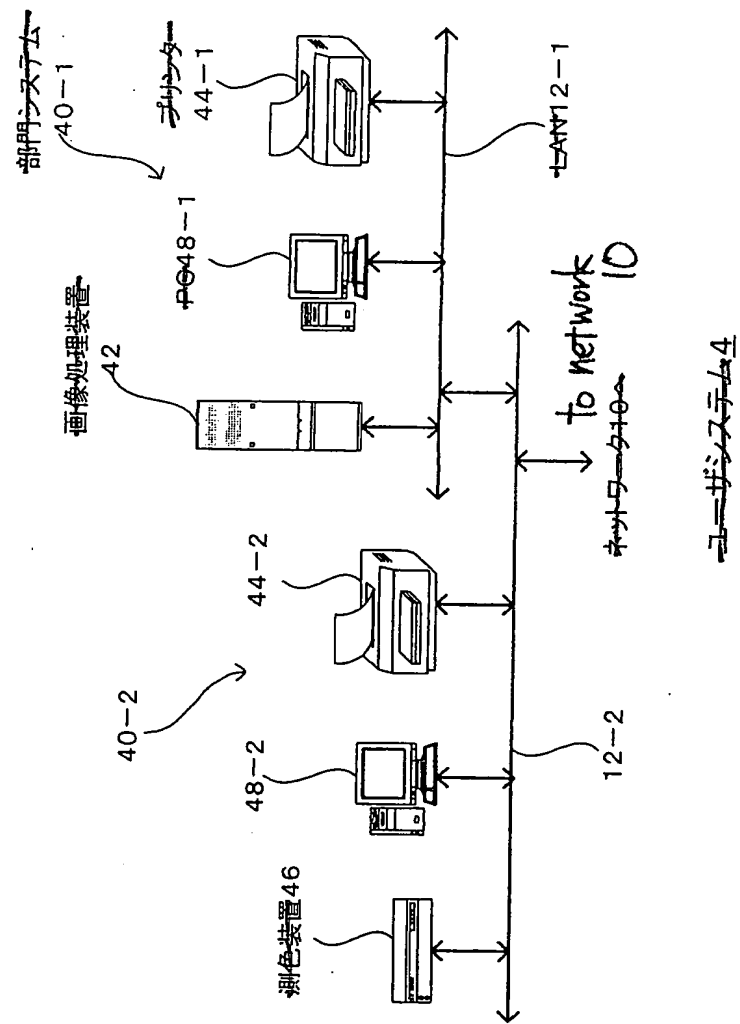


Fig. 4

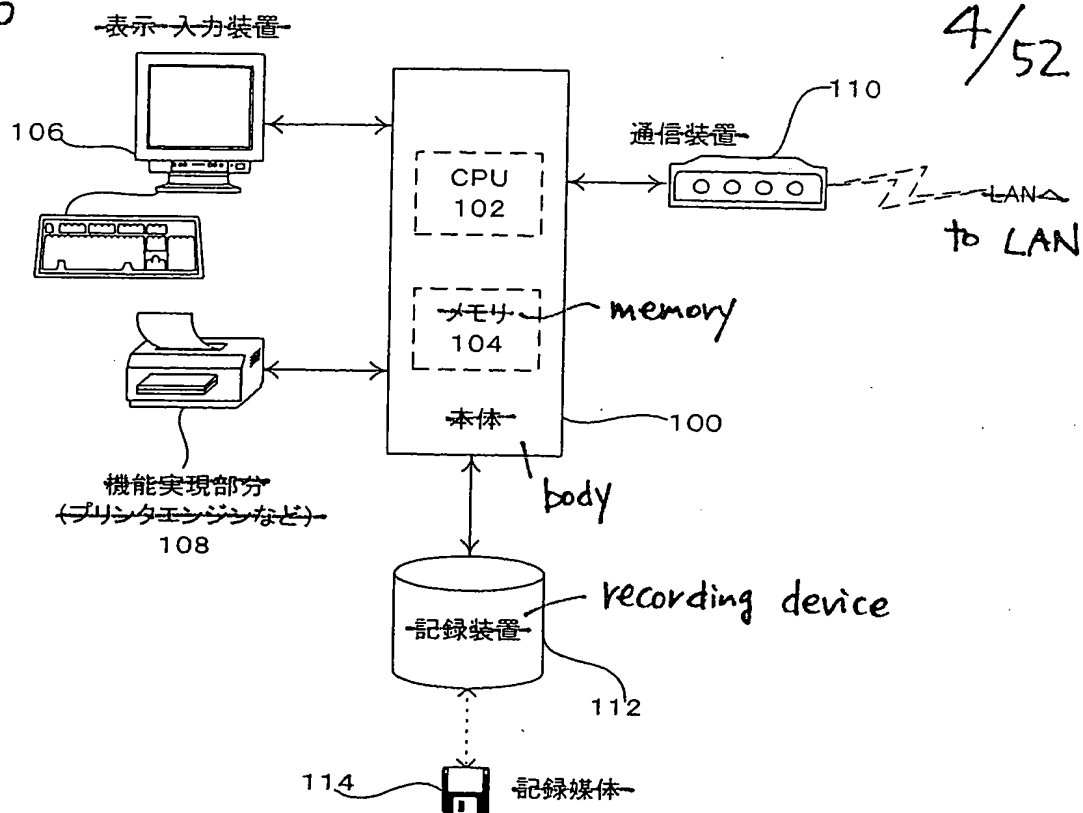
〔図4〕



3/52

【図5】

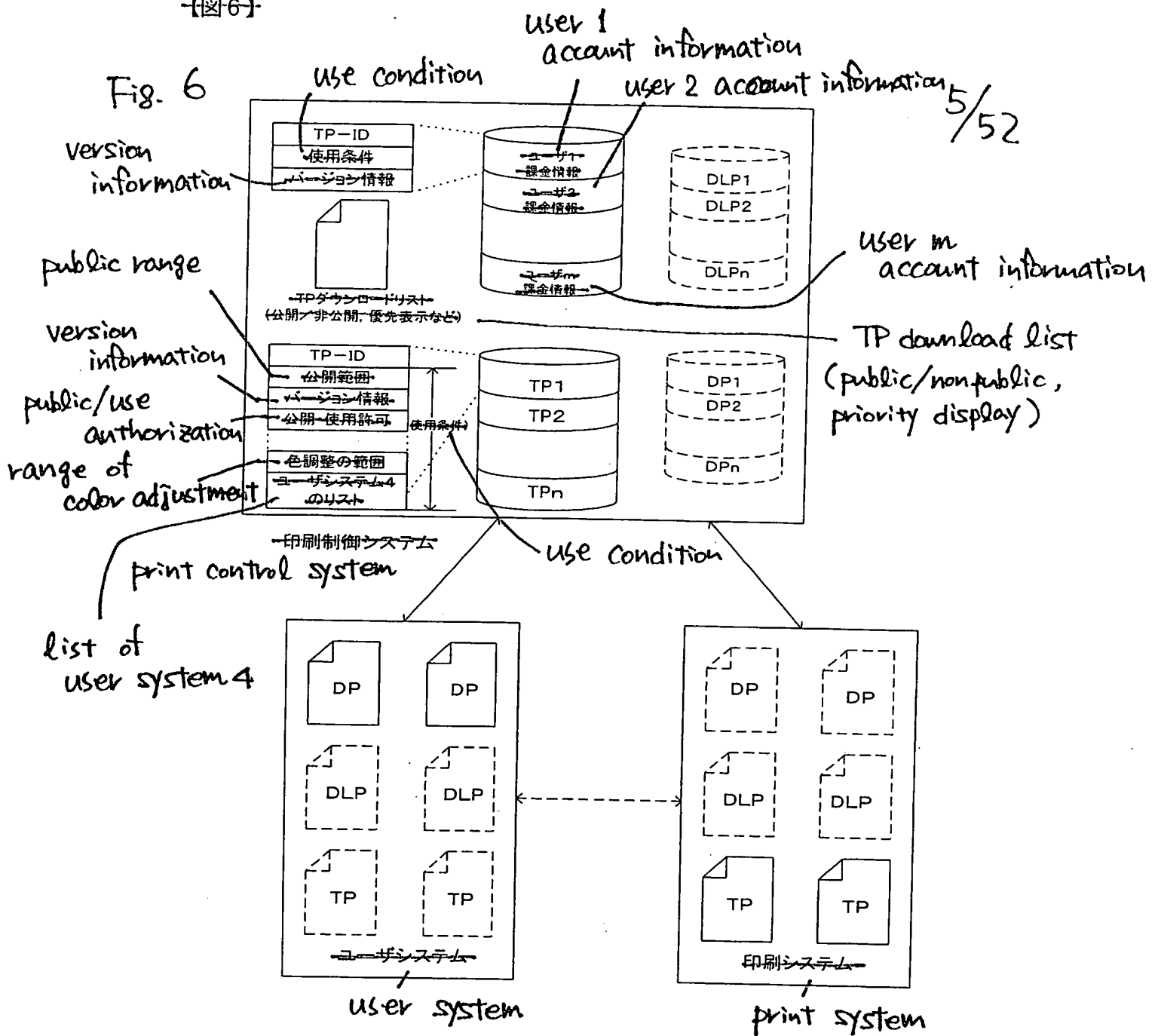
Fig. 5



PG14, 28, 48, プロファイルDB20,
 プロファイル配信装置22, 課金装置24, 30,
 印刷制御装置26, 画像処理装置32, 42,
 測色装置34, 46, 印刷機36, プリンタ44

【図6】

Fig. 6



【図7】

Fig. 7

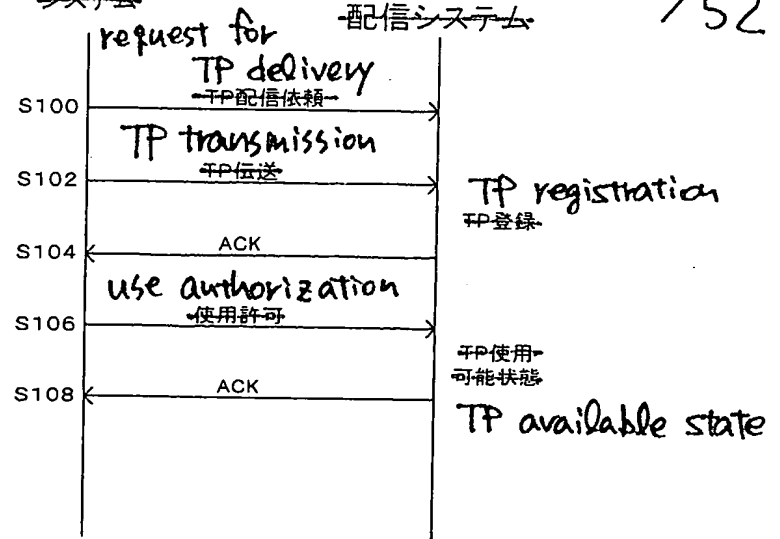
user system

ユーザ
システム

print
system
印刷
システム

profile
delivery system
プロファイル
配信システム

6/52



TP配信開始 (S10)
TP delivery start

【図8】

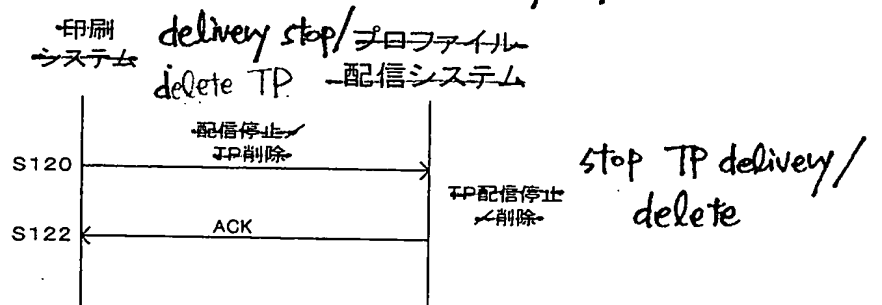
Fig. 8

user system

ユーザ
システム

print
system
印刷
システム

profile
delivery system
プロファイル
配信システム



TP配信停止 (S12)
TP delivery stop

Fig. 9

7/52

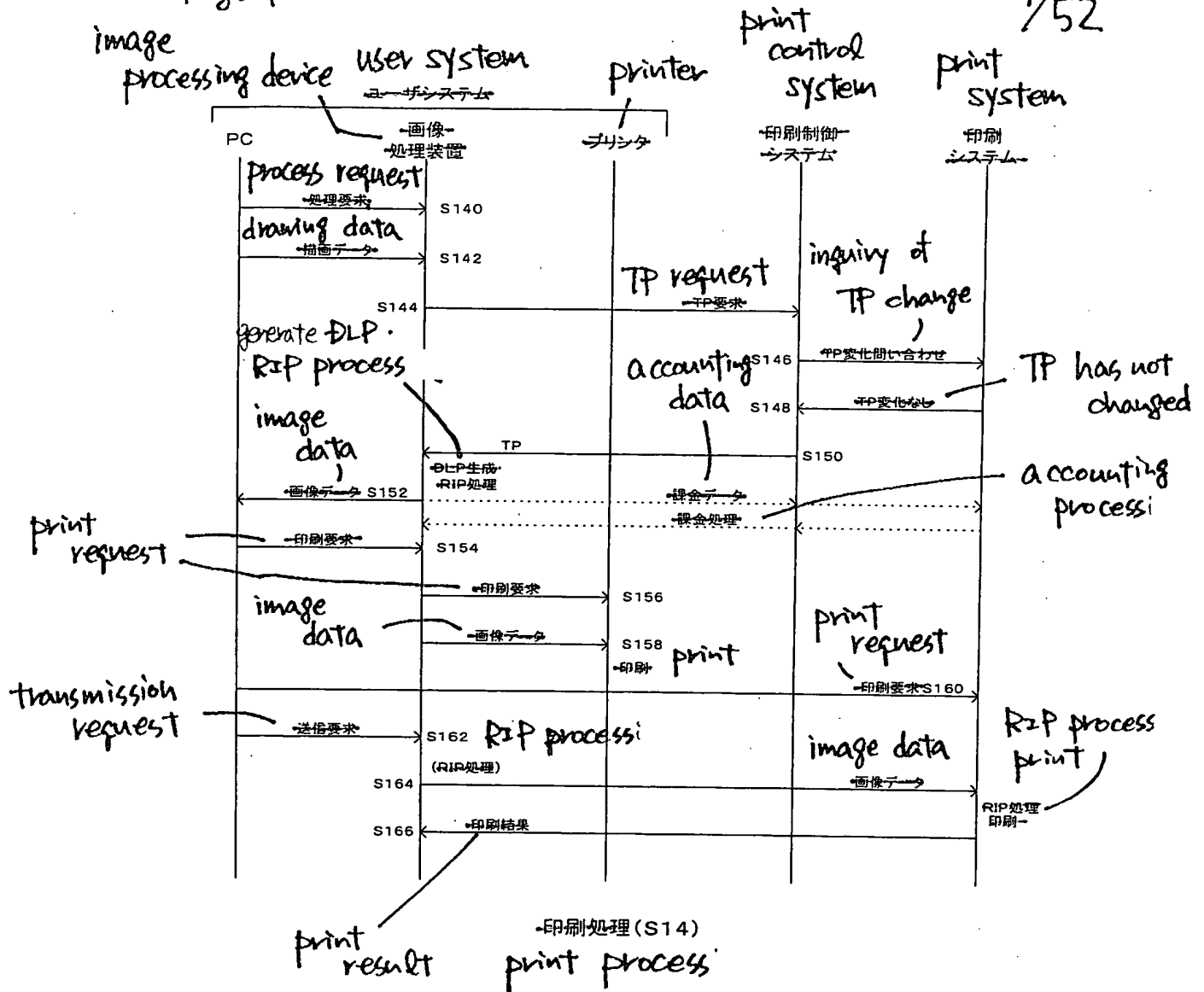


Fig. 10

8/52

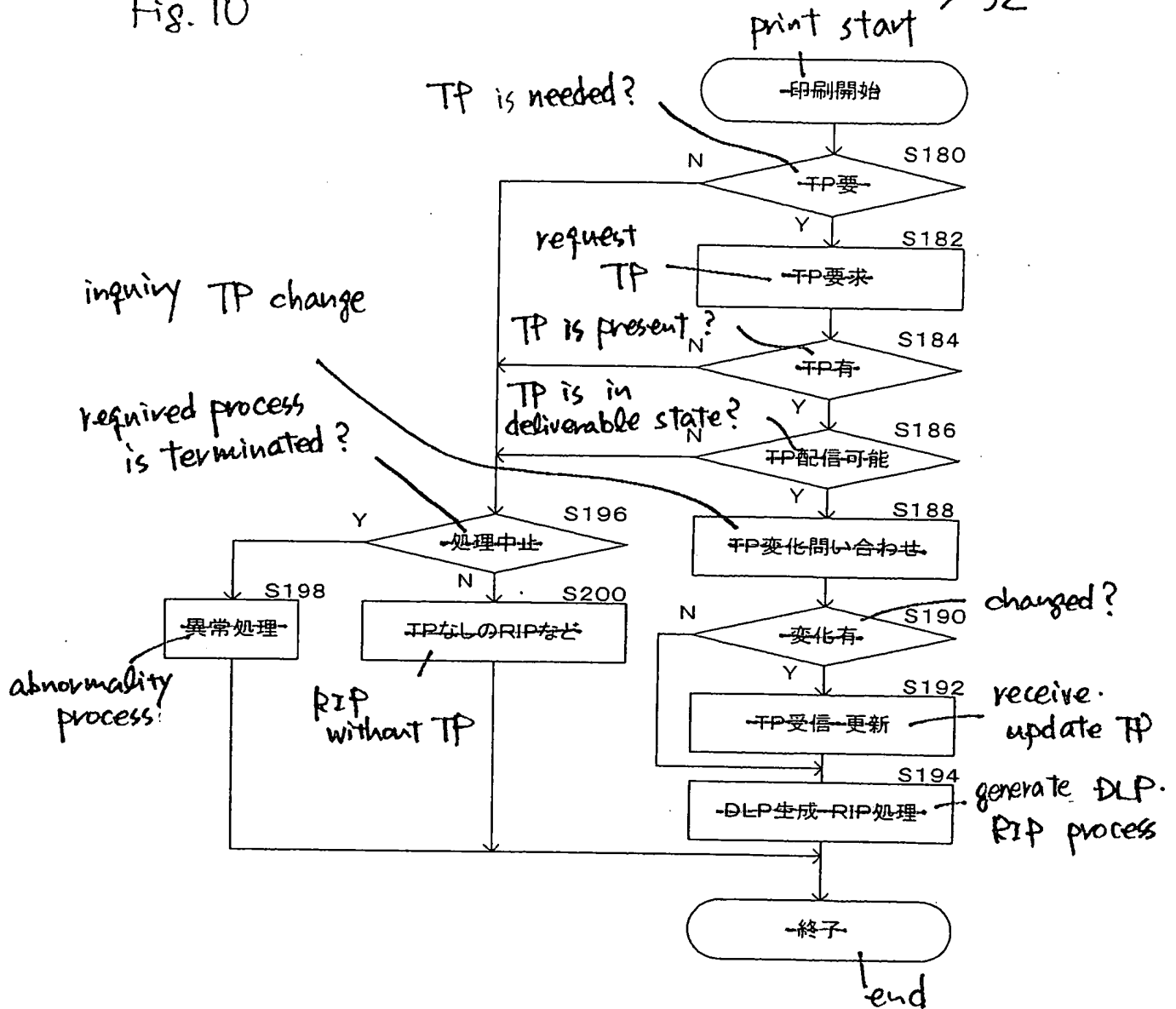


Fig. 11

9/52

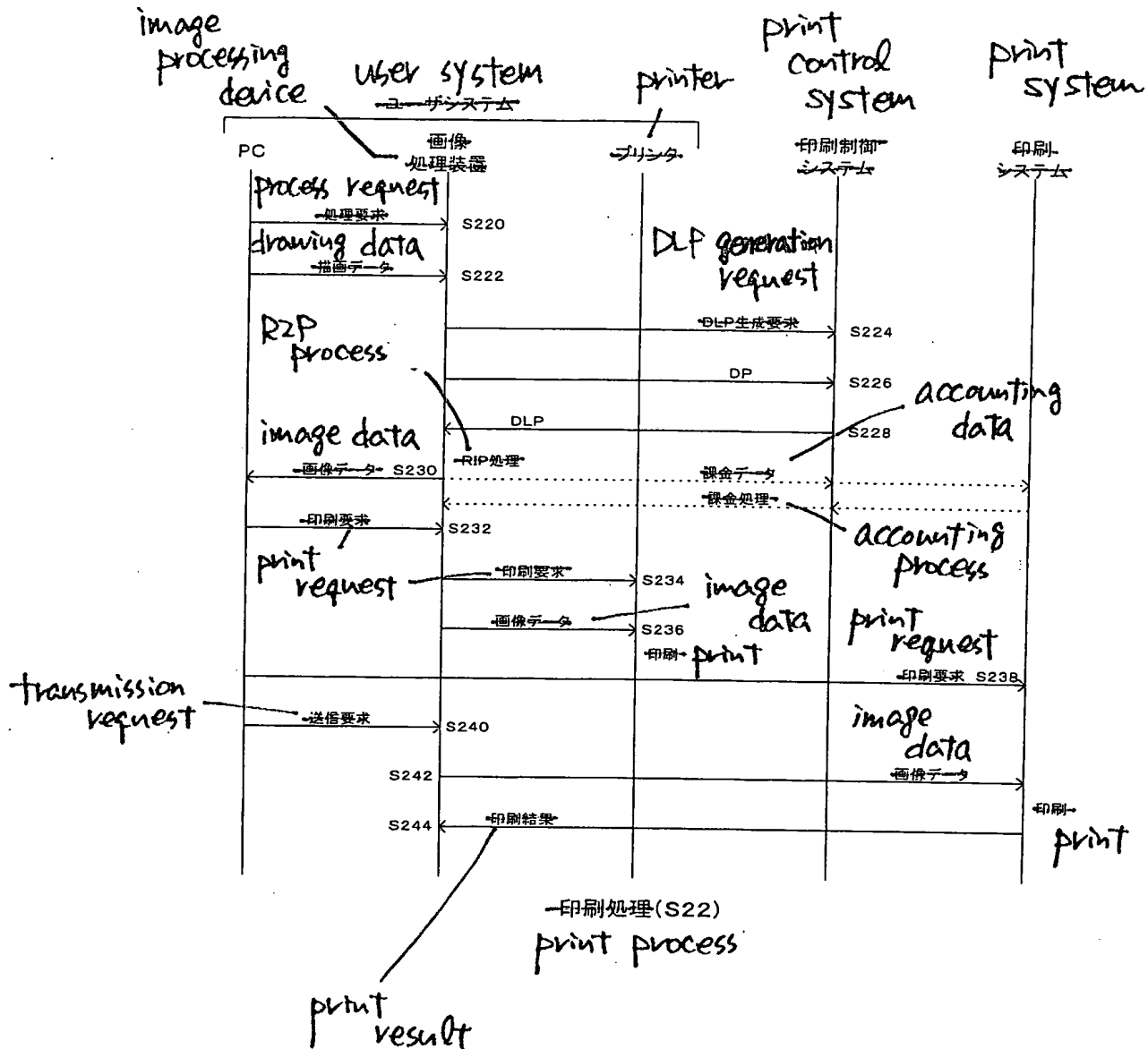
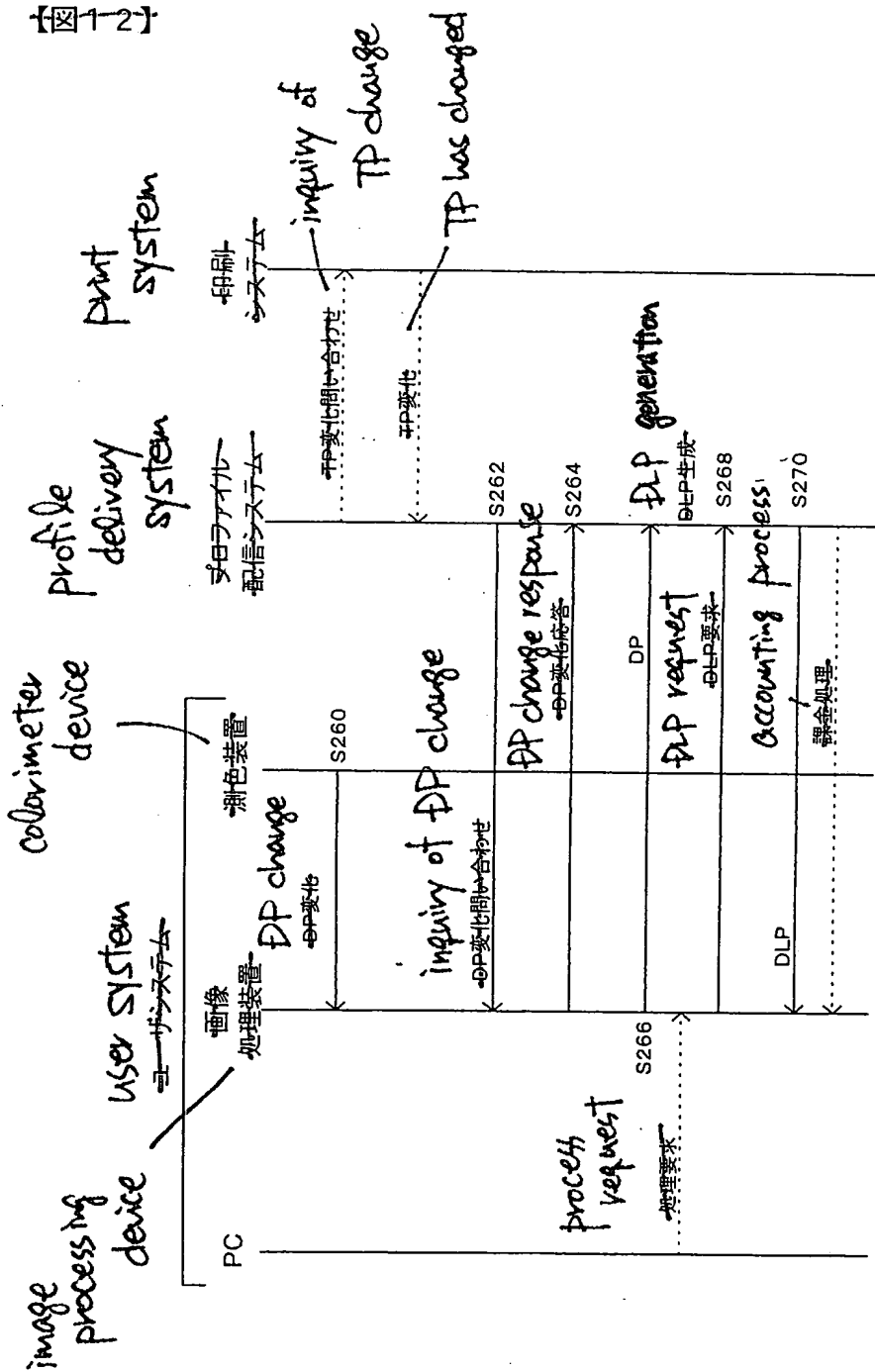


Fig. 12



[図12]

-DLP自動生成処理(S26)

DLP automatic generation process

Fig. 13

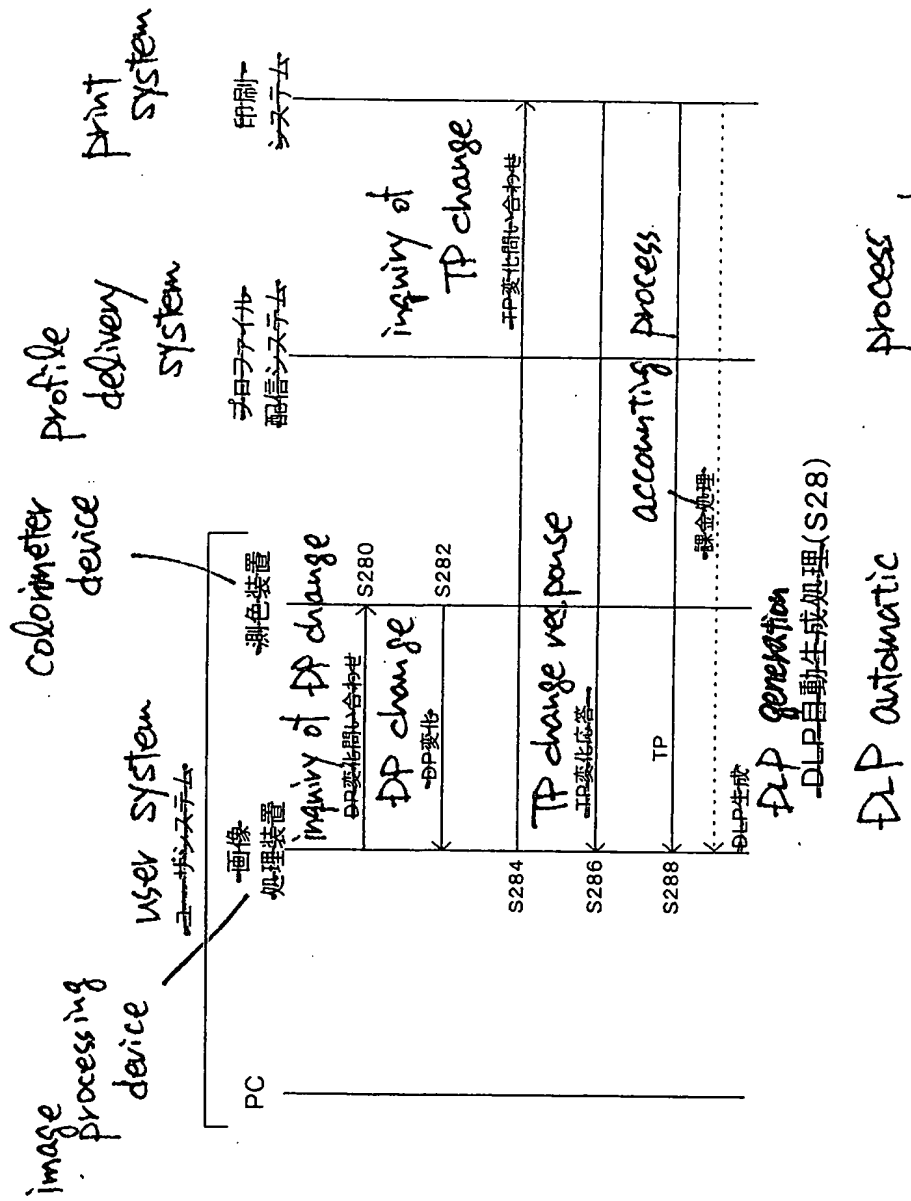


Fig. 14

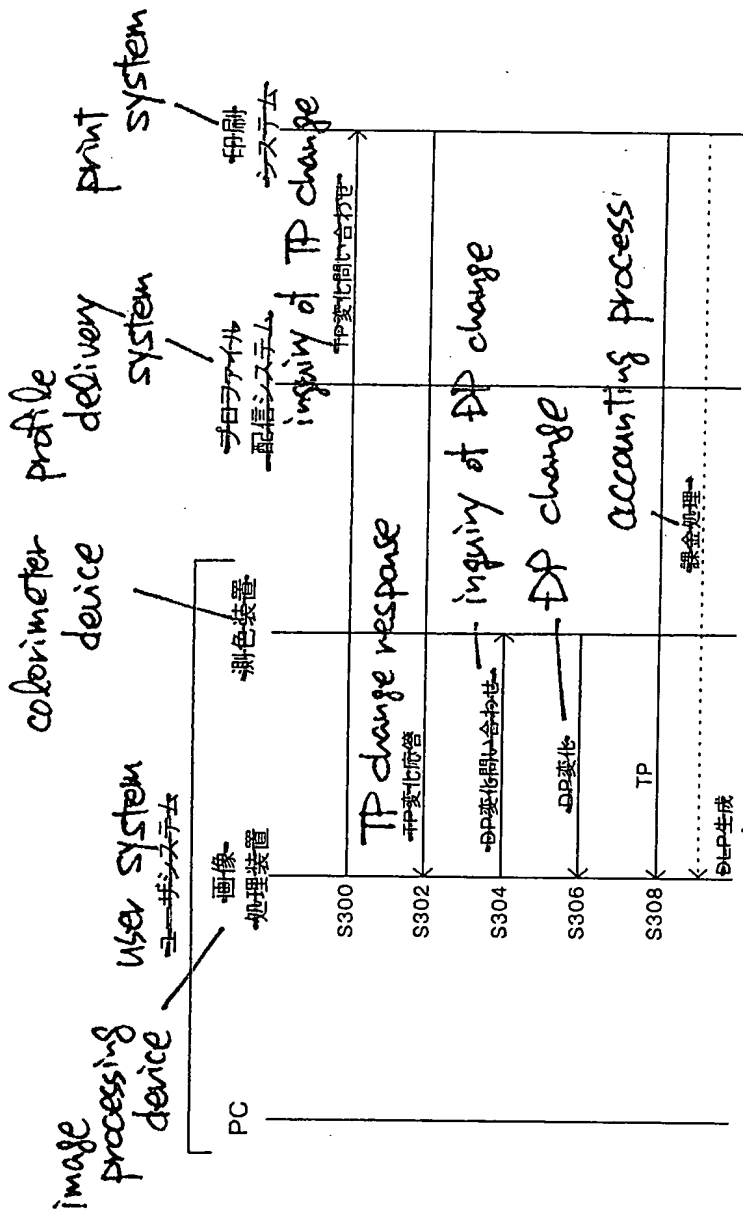
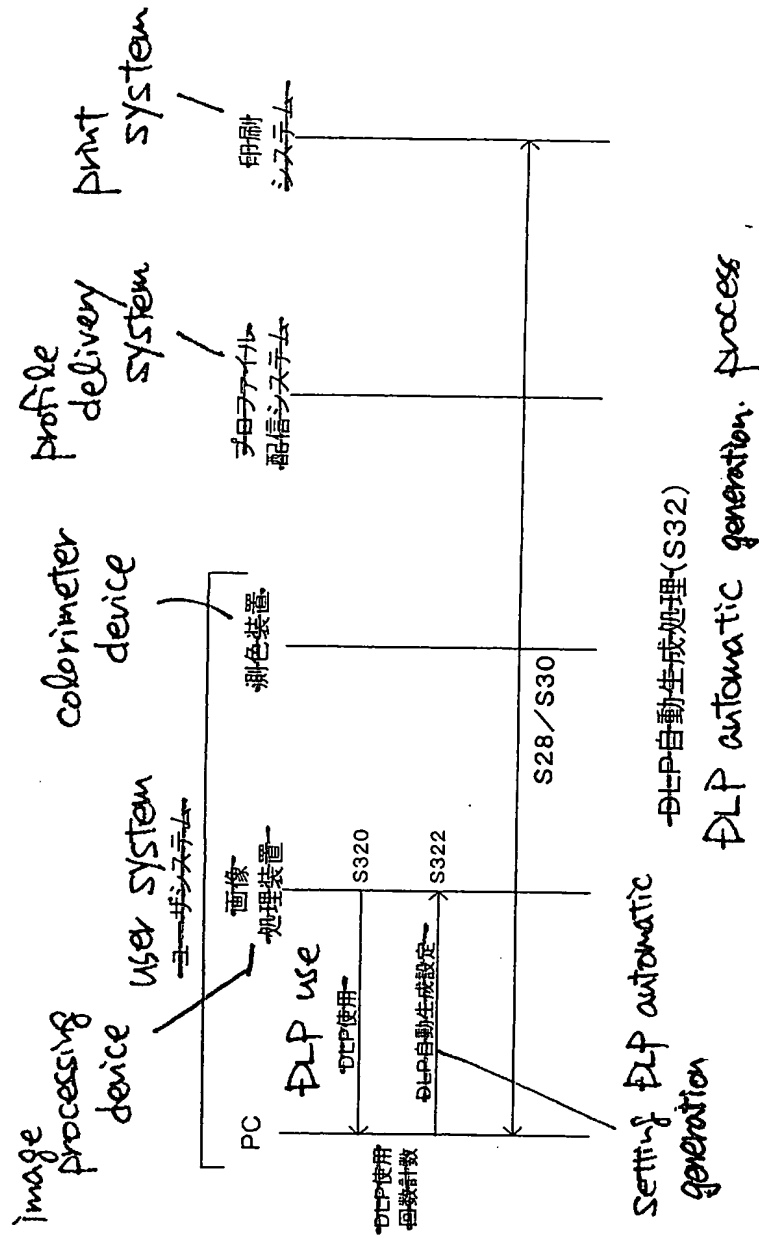


Fig. 15



Count
number of
DLP use

Setting DLP automatic
generation

DLP自動生成処理(S32)

DLP automatic generation process

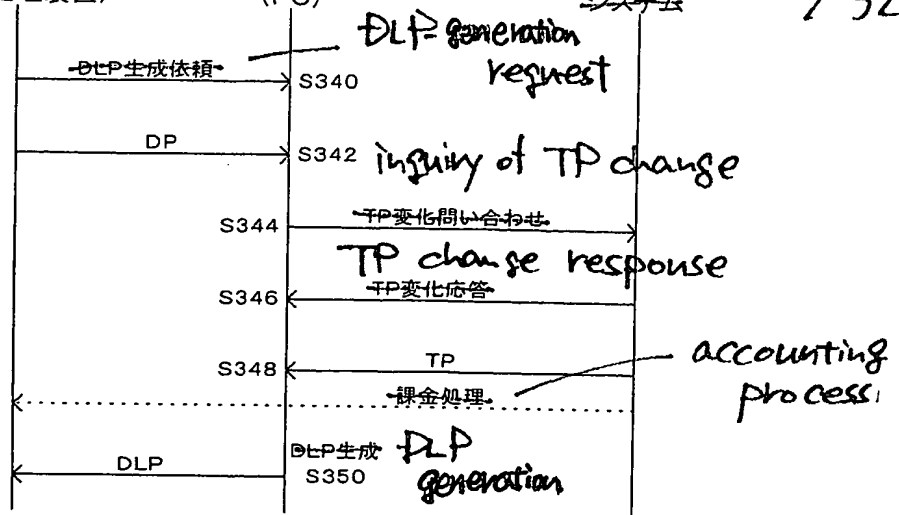
phint system

~~14/52~~

システム#1
(画像処理装置)

~~ユーザ~~
~~システム#2~~
(PC)

印刷
システム



DLP生成依賴處理(S34)

DLP generation request process

Fig. 17

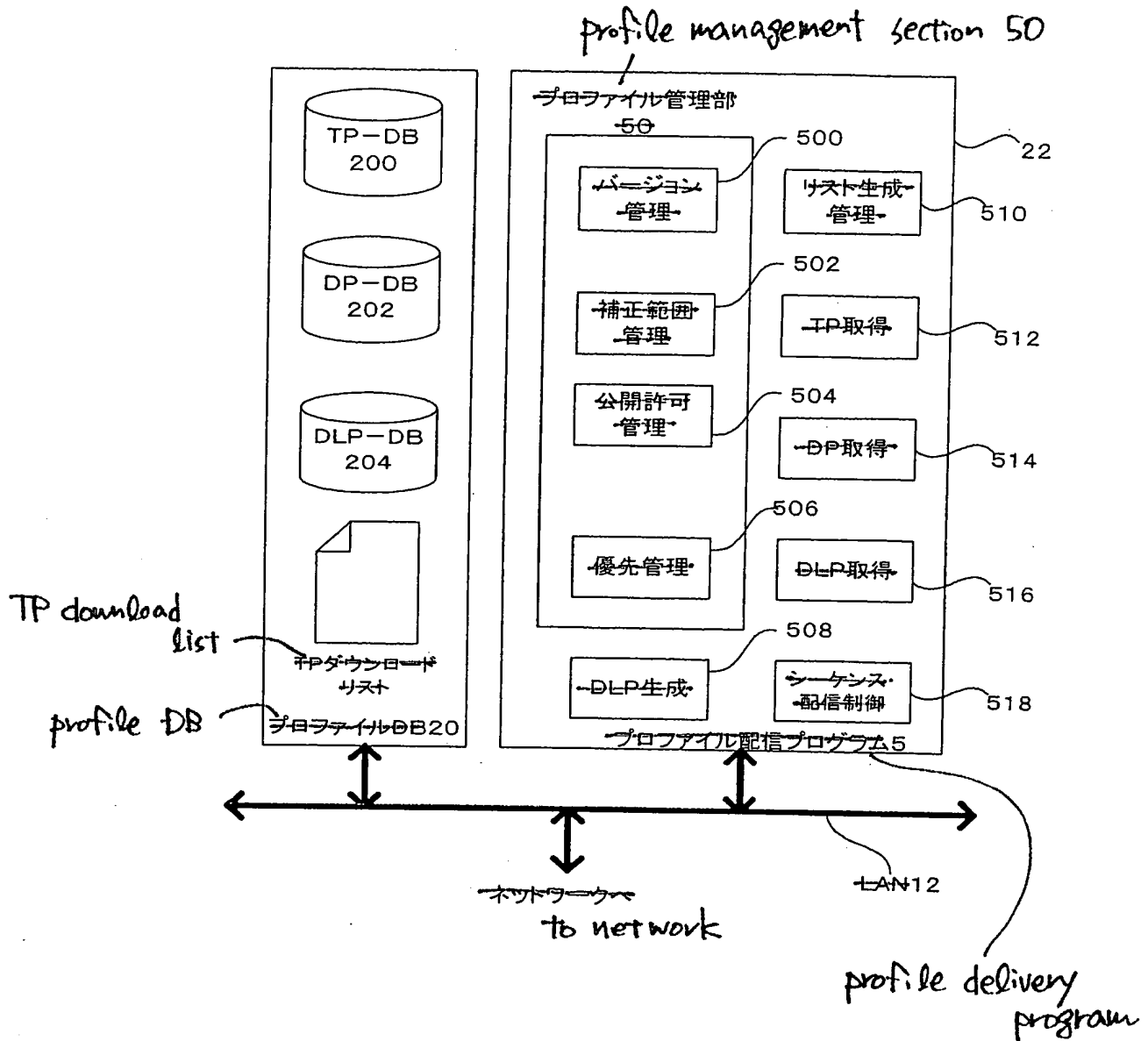
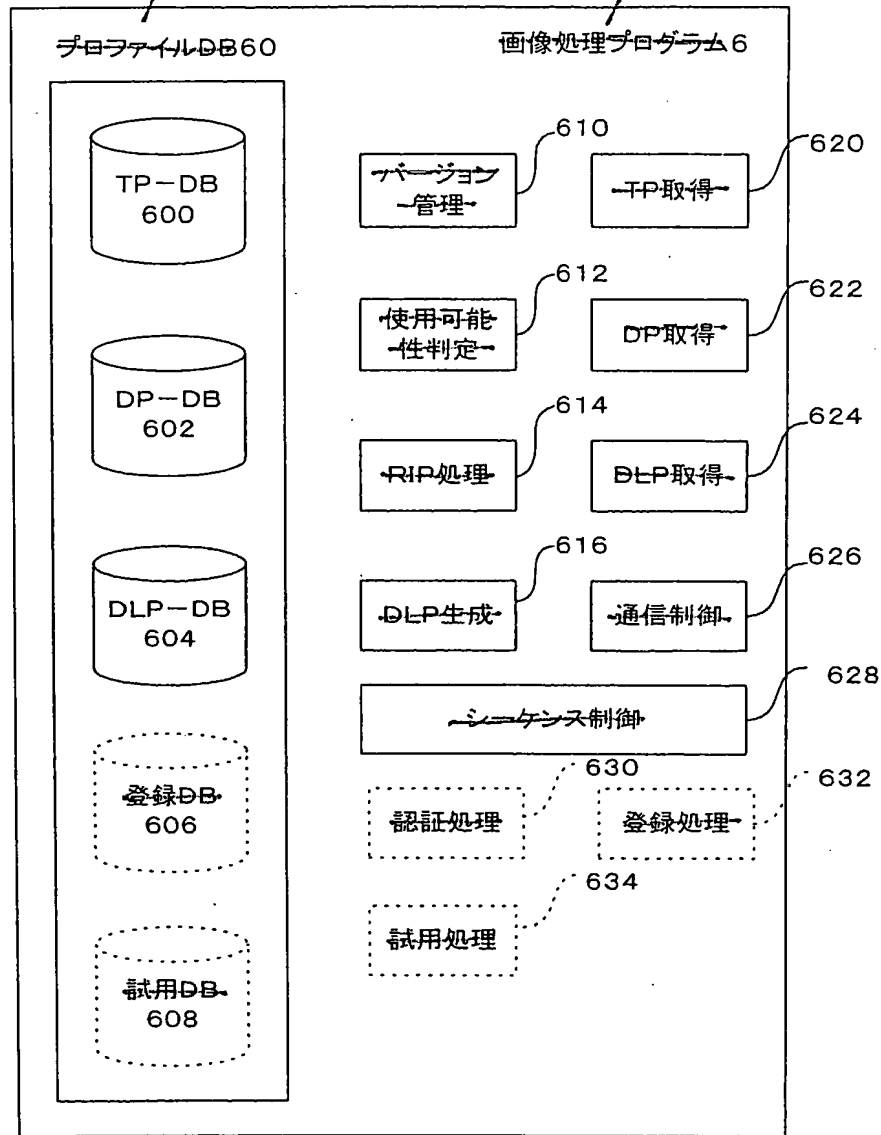


Fig. 17

500 VERSION MANAGEMENT SECTION
502 CORRECTION RANGE MANAGEMENT SECTION
504 PUBLIC AUTHORIZATION MANAGEMENT SECTION
506 PRIORITY MANAGEMENT SECTION
508 DLP GENERATION SECTION
510 LIST GENERATION MANAGEMENT SECTION
512 TP ACQUISITION SECTION
514 DP ACQUISITION SECTION
516 DLP ACQUISITION SECTION
518 SEQUENCE/COMMUNICATION CONTROL SECTION

Fig. 18 profile DB image processing program 16/52



画像処理装置42(32)

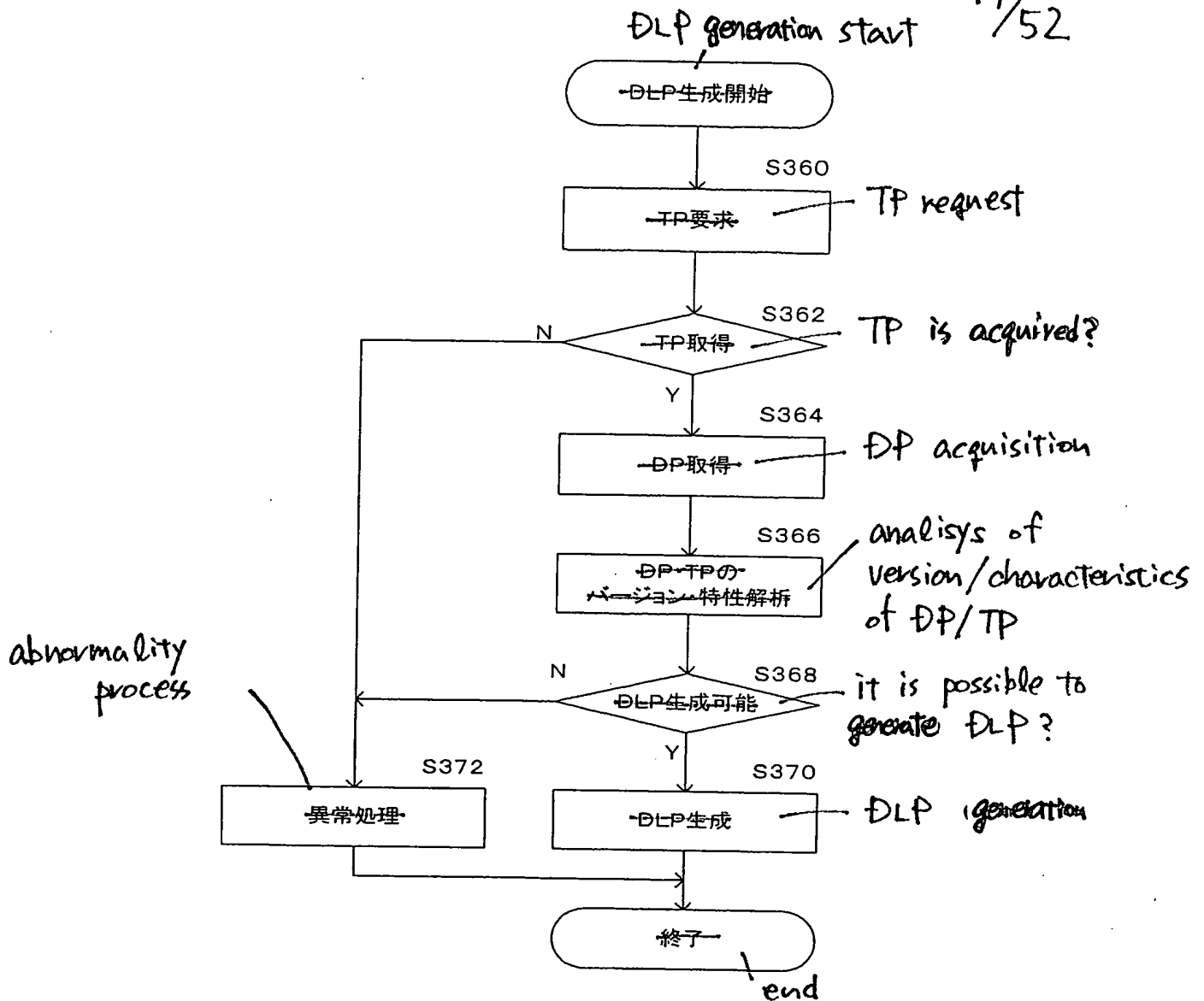
image processing device

Fig. 18

606 REGISTRATION DB
608 TRIAL DB
610 VERSION MANAGEMENT SECTION
612 AVAILABILITY DECISION SECTION
614 RIP PROCESS SECTION
616 DLP GENERATION SECTION
620 TP ACQUISITION SECTION
622 DP ACQUISITION SECTION
624 DLP ACQUISITION SECTION
626 COMMUNICATION CONTROL SECTION
628 SEQUENCE CONTROL SECTION
630 AUTHENTICATION PROCESS SECTION
632 REGISTRATION PROCESS SECTION
634 TRIAL CONTROL SECTION

Fig. 19

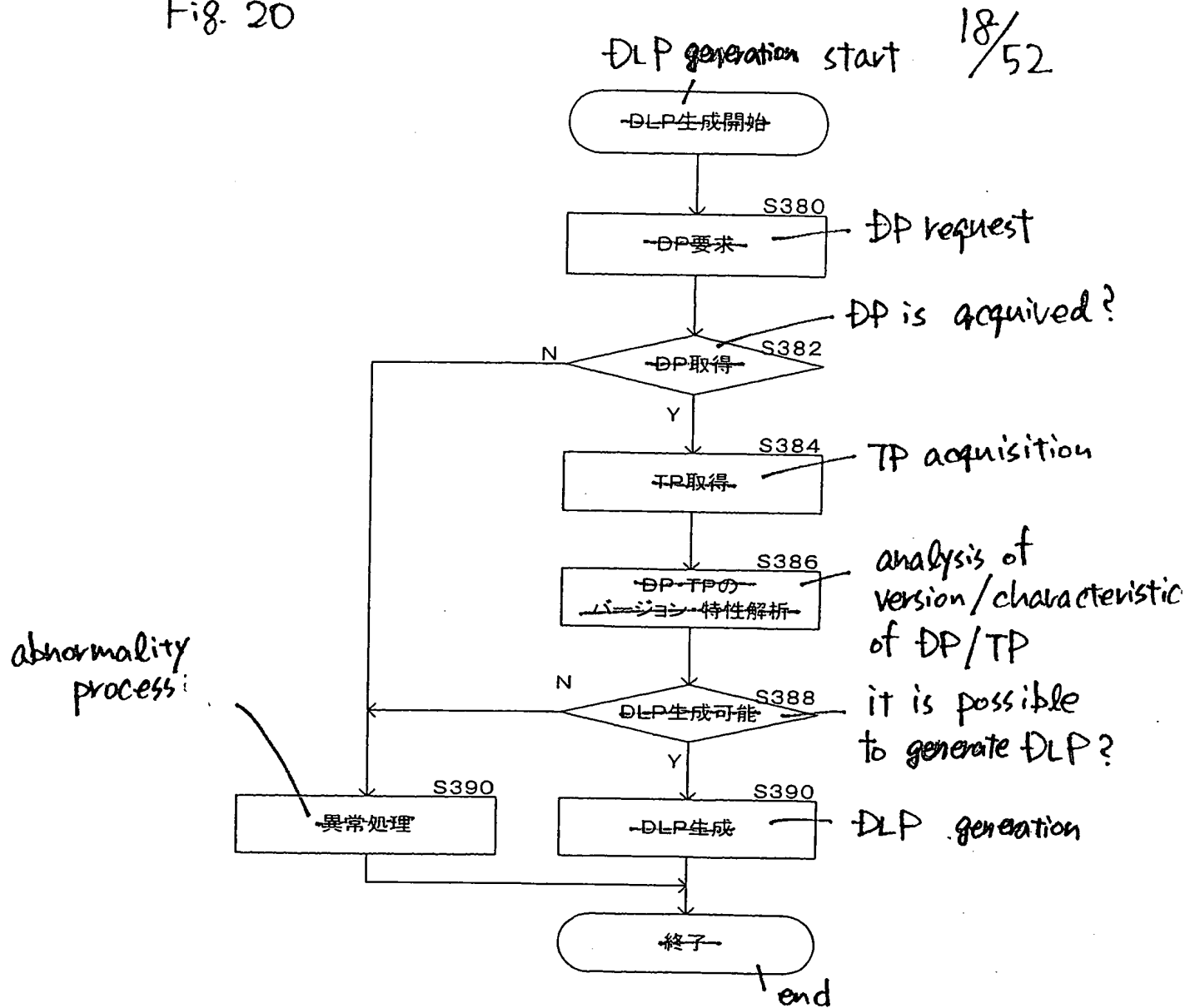
17/52



ユーザシステム側でのDLP生成(S36)

DLP generation on user system side

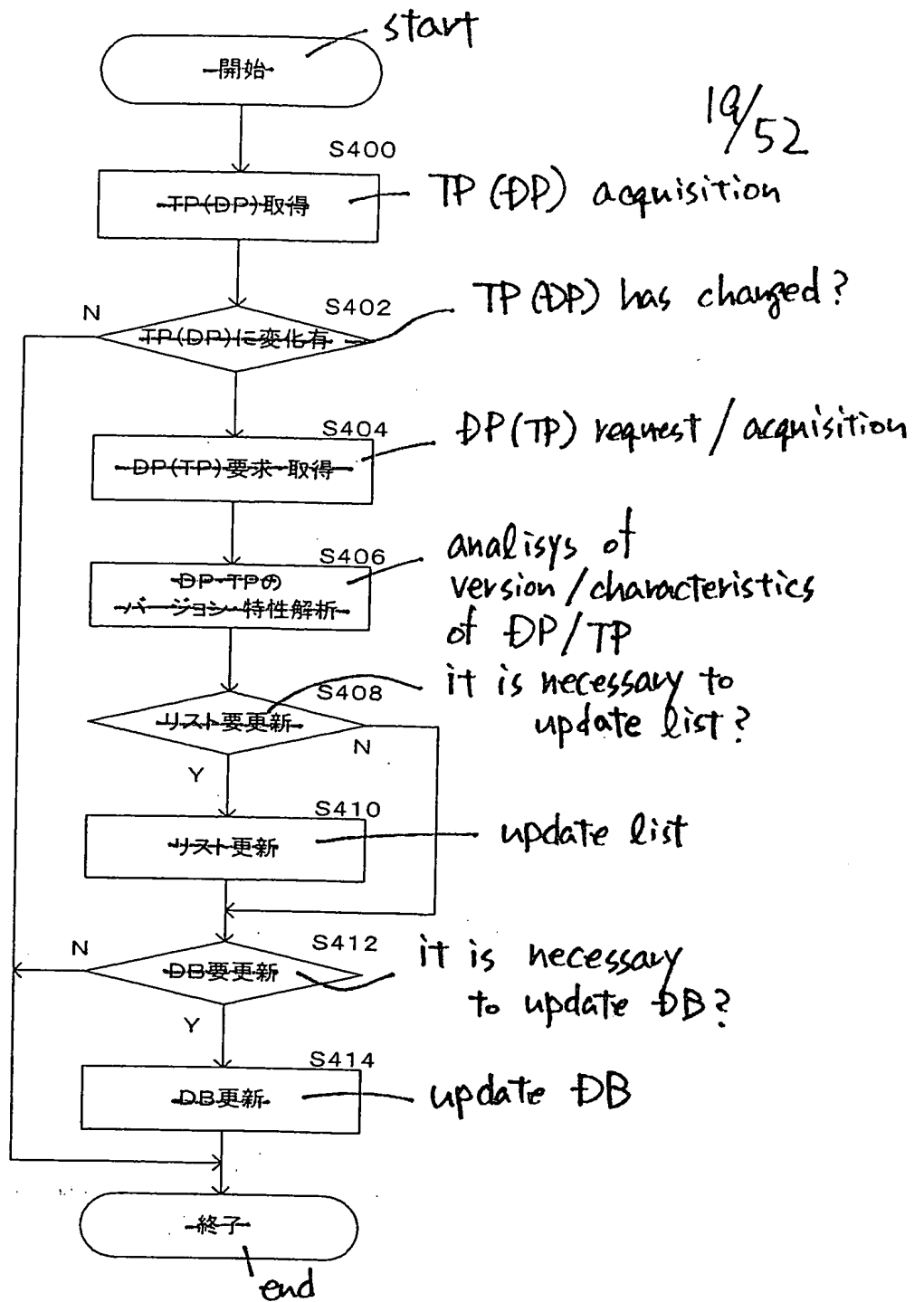
Fig. 20



プロファイル配信システム側での
DLP生成(S38)

DLP generation on profile delivery
system side

Fig. 21



プロファイル配信システム側
リスト・DB更新 (S40)

list / DB update
on profile delivery system side

Fig. 22

20/52

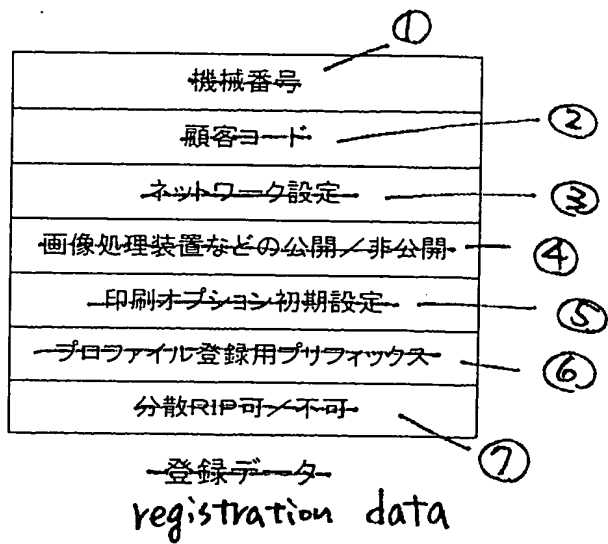


Fig. 22

- ① MACHINE NUMBER
- ② CUSTOMER CODE
- ③ NETWORK SETTING
- ④ PUBLIC/PRIVATE OF IMAGE PROCESSING DEVICE
- ⑤ INITIAL SETTING OF PRINT OPTION
- ⑥ PROFILE REGISTERING PREFIX
- ⑦ DECENTRALIZED RIP POSSIBLE/IMPOSSIBLE

Fig. 23

21/52

依頼元	①
用紙サイズ	②
カラー／白黒	③
印刷部数	④
原稿タイプ	⑤
画質モード	⑥
プリンタモード	⑦
色変換モード	⑧
片面／両面	⑨
拡大／等倍／縮小	⑩
Nアップ指定	⑪
排出先指定	⑫
スプールオプション	⑬
RIP済データ保存	⑭
差し込み印刷	⑮
色変換(プロファイル)指定	⑯
カバーページ	⑰
用紙種類	⑱
その他(時刻指定など)	⑲

印刷オプション

print option

Fig. 23

- ① REQUESTER
- ② PAPER SIZE
- ③ COLOR/BLACK-AND-WHITE
- ④ PRINTED NUMBER
- ⑤ DOCUMENT TYPE
- ⑥ PICTURE QUALITY MODE
- ⑦ PRINTER MODE
- ⑧ COLOR CONVERSION MODE
- ⑨ SINGLE/DOUBLE SIDES
- ⑩ MAGNIFY/EQUAL/REDUCE
- ⑪ N-UP DESIGNATION
- ⑫ DESTINATION OF DISCHARGE
- ⑬ SPOOL OPTION
- ⑭ RIP PROCESSED DATA STORAGE
- ⑮ MERGING PRINT
- ⑯ COLOR CHANGE (PROFILE) DESIGNATION
- ⑰ COVER PAGE
- ⑱ PAPER KIND
- ⑲ OTHERS (TIME DESIGNATION)

Fig. 24

22/52

①	依頼元	
	RIPステータス	②
	カラー／白黒	③
	画質モード	④
	プリンタモード	⑤
	用紙サイズ	⑥
	処理部数	⑦
	RIPページ	⑧
	RIP時間	⑨
	開始時間	⑩
	ファイルサイズ	⑪
	カバーページ有／無	⑫
	RIP済データ有／無	⑬
	色変換(プロファイル)指定	⑭
	分散RIP	⑮

RIPデータ

RIP data

Fig. 24

- ① REQUESTER
- ② RIP STATUS
- ③ COLOR/BLACK-AND-WHITE
- ④ PICTURE QUALITY MODE
- ⑤ PRINTER MODE
- ⑥ PAPER SIZE
- ⑦ NUMBER OF PRINTS TO BE PROCESSED
- ⑧ RIP PAGE
- ⑨ RIP TIME
- ⑩ START TIME
- ⑪ FILE SIZE
- ⑫ PRESENCE/ABSENCE OF COVER PAGE
- ⑬ PRESENCE/ABSENCE OF RIP-PROCESSED DATA
- ⑭ COLOR CONVERSION (PROFILE) DESIGNATION
- ⑮ DECENTRALIZED RIP

Fig. 25

23/52

処理種別(RIP／印刷)	①
課金先(依頼元)	②
カラー／白黒	③
用紙サイズ	④
処理部数	⑤
ページ数	⑥
カバーページ有／無	⑦
用紙種類	⑧
片面／両面	⑨
分散RIP	⑩

印刷データ

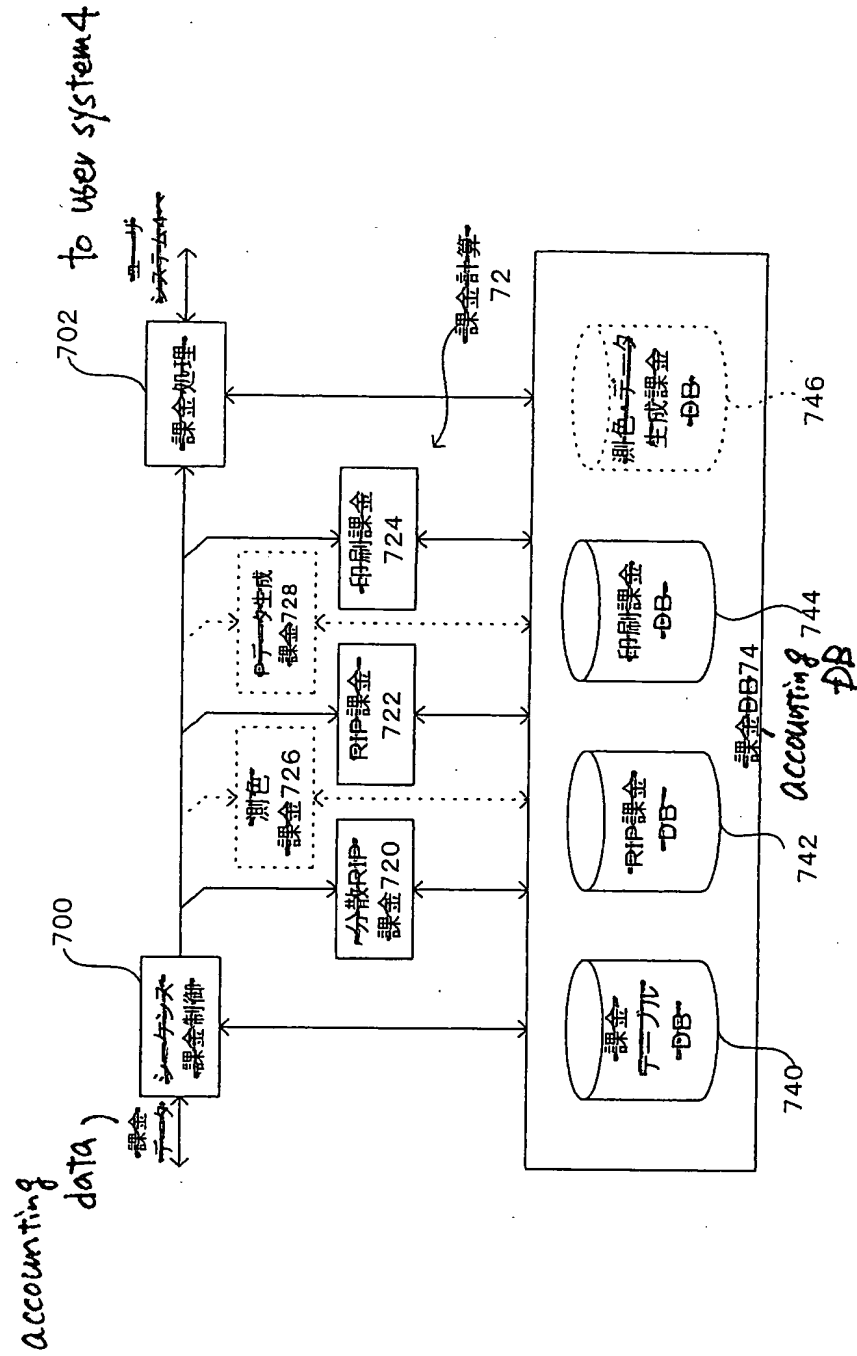
print data

Fig. 25

- ① PROCESSING KIND (RIP/PRINT)
- ② ACCOUNTING TARGET (REQUESTER)
- ③ COLOR/WHITE-AND-BLACK
- ④ PAPER SIZE
- ⑤ NUMBER OF PRINTS TO BE PROCESSED
- ⑥ PAGE NUMBER
- ⑦ PRESENCE/ABSENCE OF COVER PAGE
- ⑧ PAPER KIND
- ⑨ SINGLE/DOUBLE SIDES
- ⑩ DECENTRALIZED RIP

Fig. 26

【図26】



課金データベース 70
accounting program

Fig. 26

700 SEQUENCE/ACCOUNTING CONTROL SECTION
702 ACCOUNTING PROCESS SECTION
720 DECENTRALIZED RIP ACCOUNTING SECTION
722 RIP ACCOUNTING SECTION
724 PRINT ACCOUNTING SECTION
726 COLORIMETRY ACCOUNTING SECTION
728 P-DATA GENERATION ACCOUNTING SECTION
740 ACCOUNTING TABLE DB
742 RIP ACCOUNTING DB
744 PRINT ACCOUNTING DB
746 COLORIMETRY/DATA GENERATION ACCOUNTING DB

Fig. 27

user system

image processing device

print system

25/52

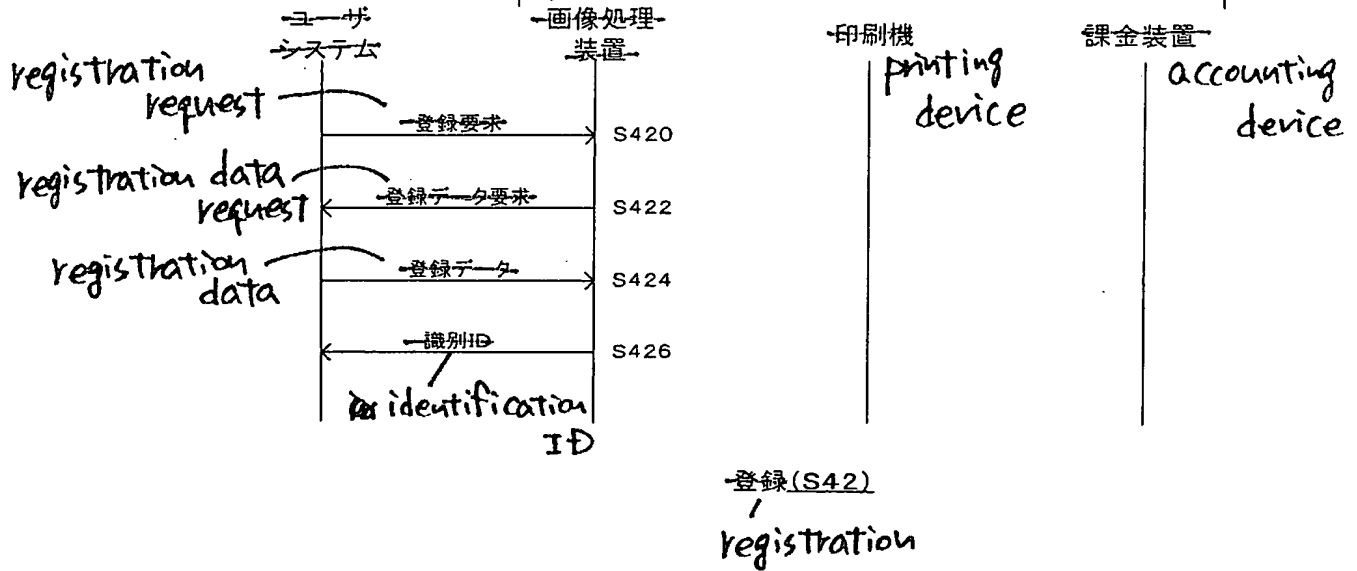
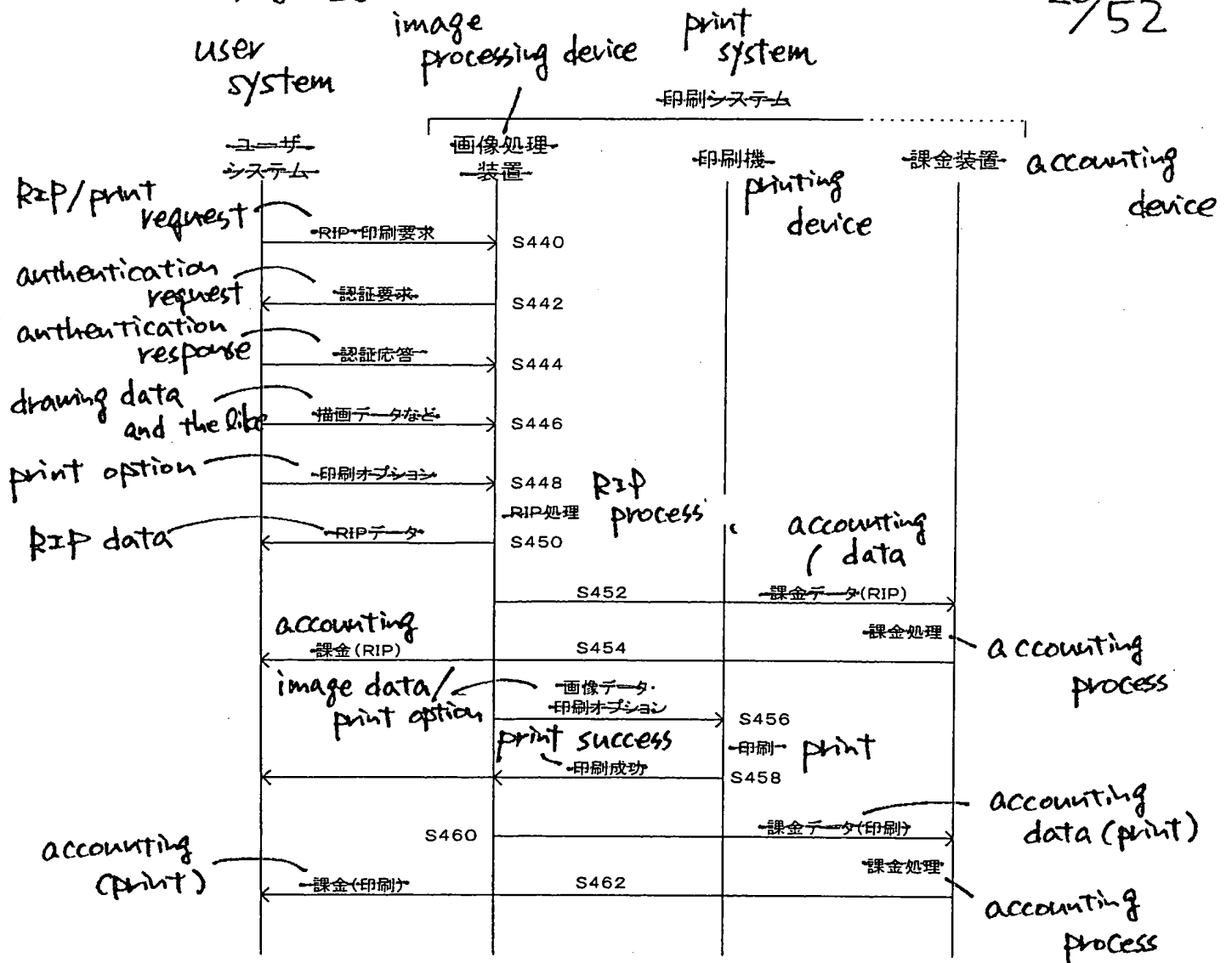


Fig. 28

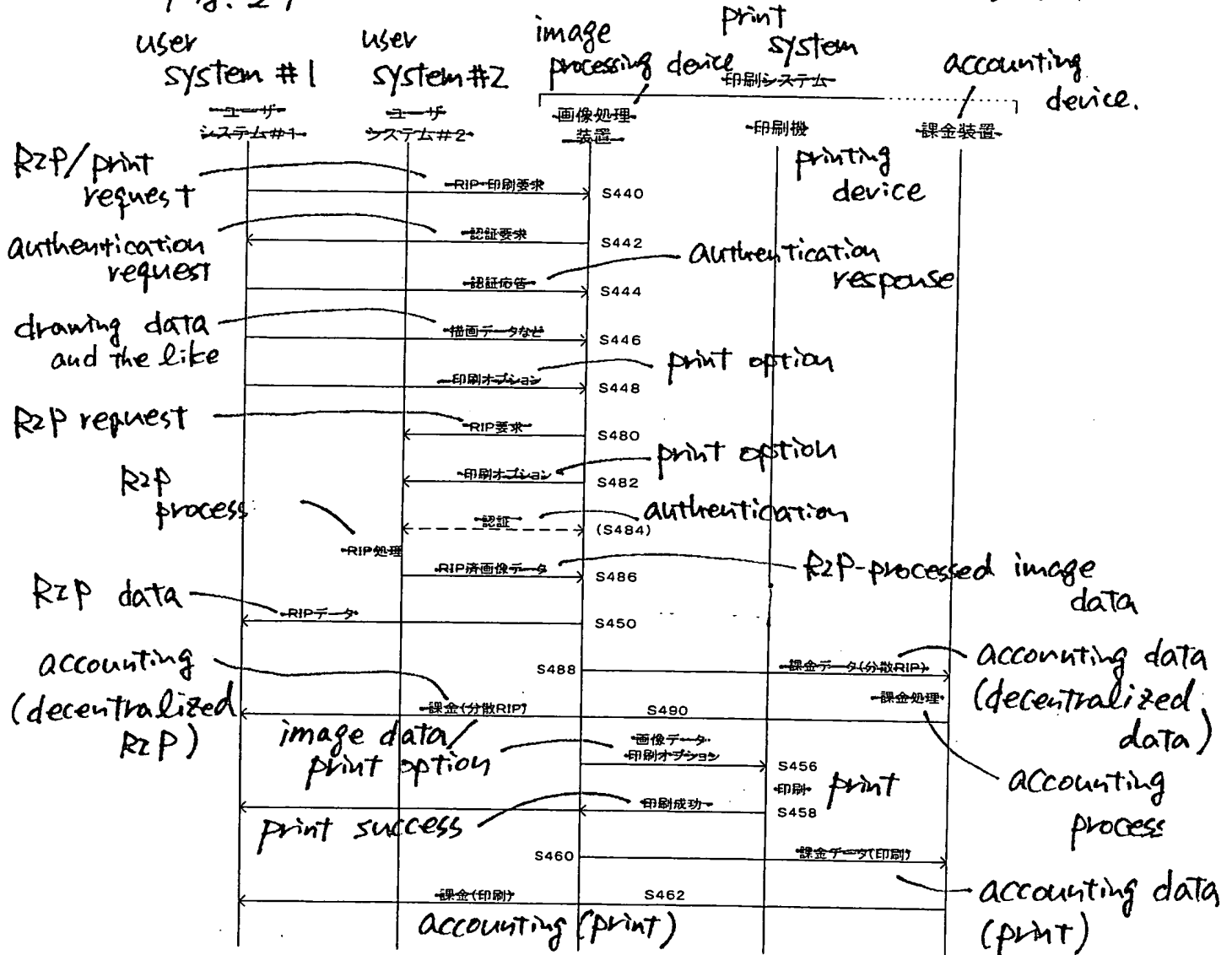
26/52



「RIP・印刷・課金(S44)」

RIP/Print/Accounting

Fig. 29



分散RIP-印刷-課金(S48)

decentralized RIP/print/accounting

Fig. 30

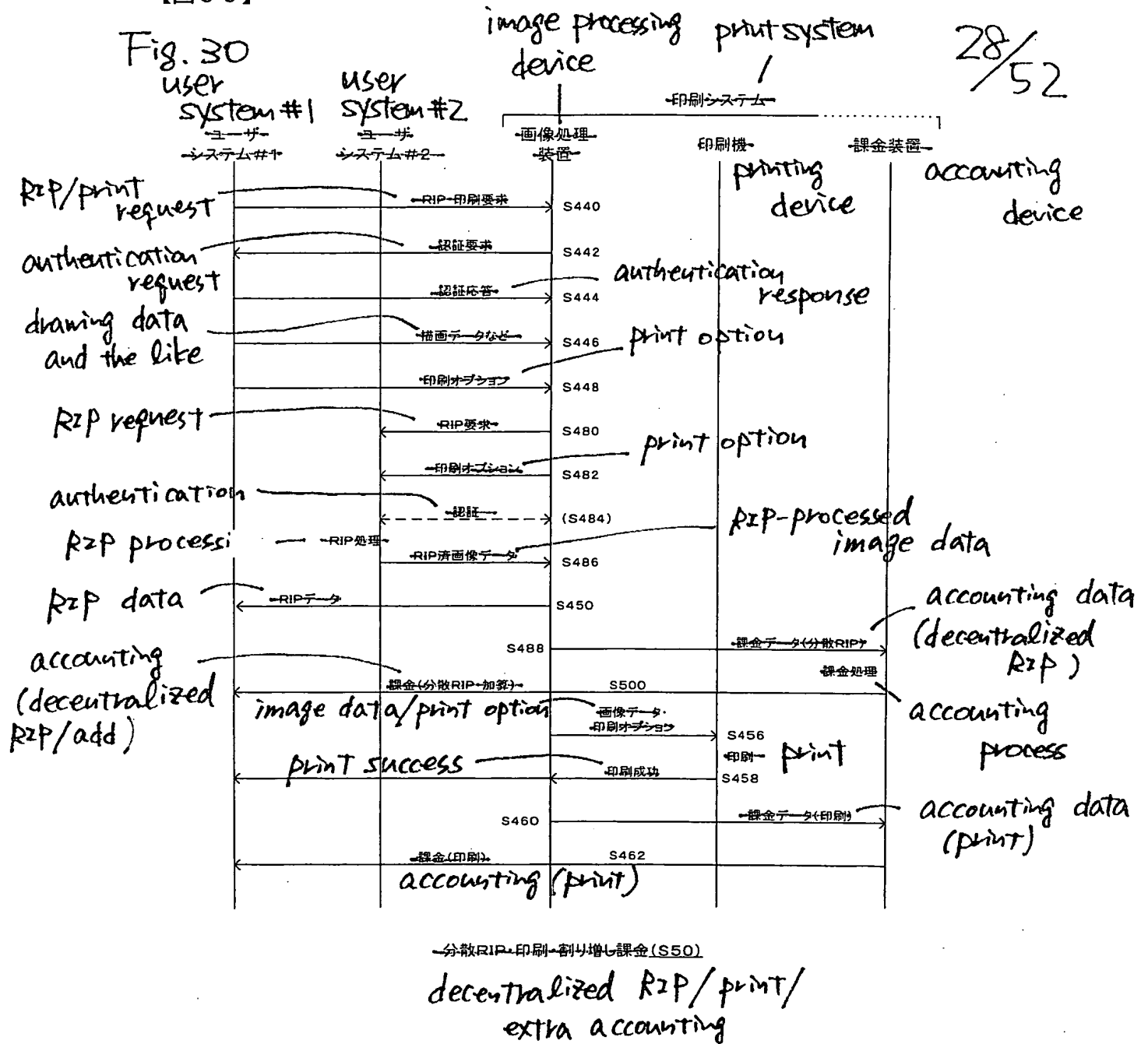
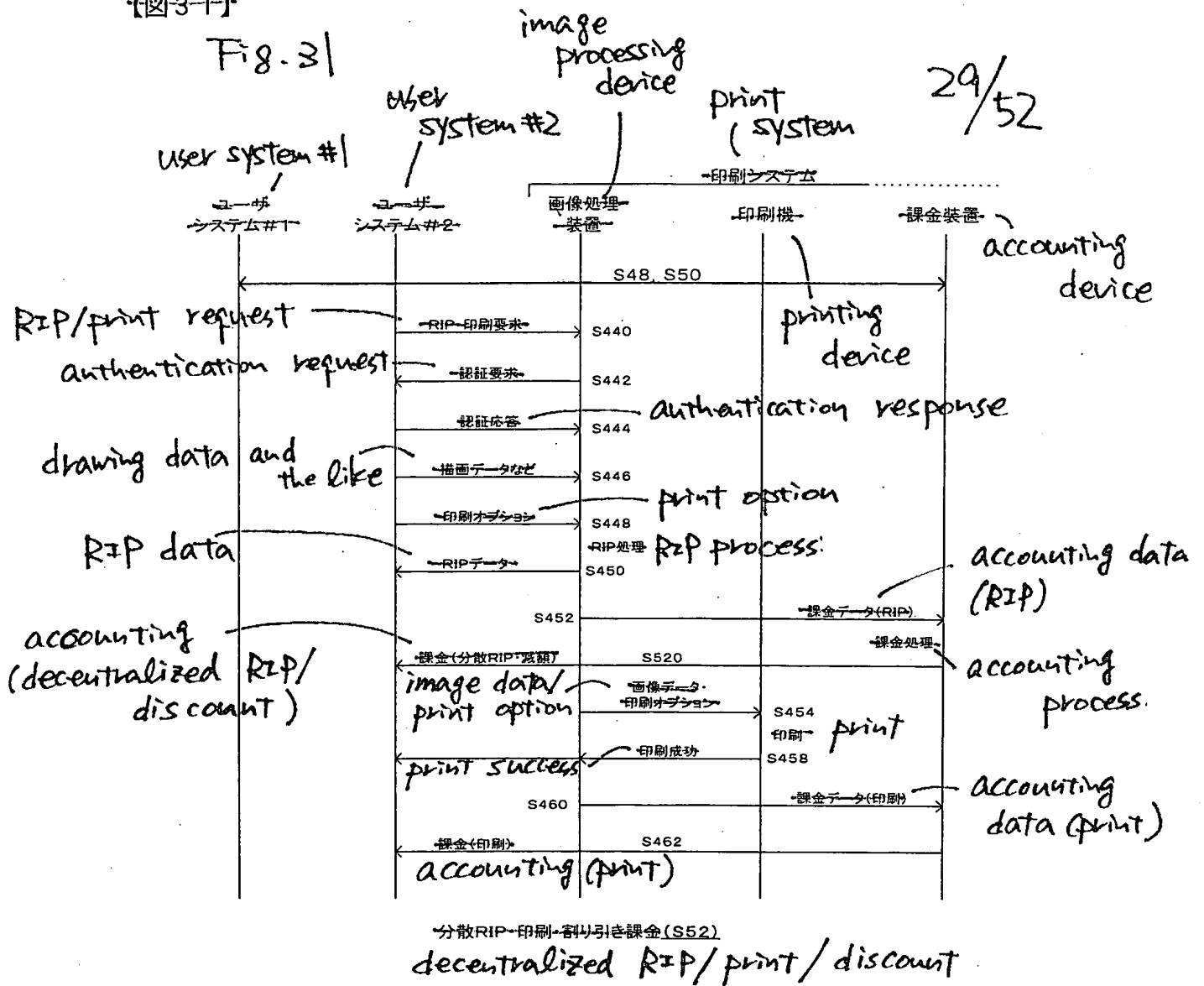


Fig. 31

29/52



-(図3-2)-

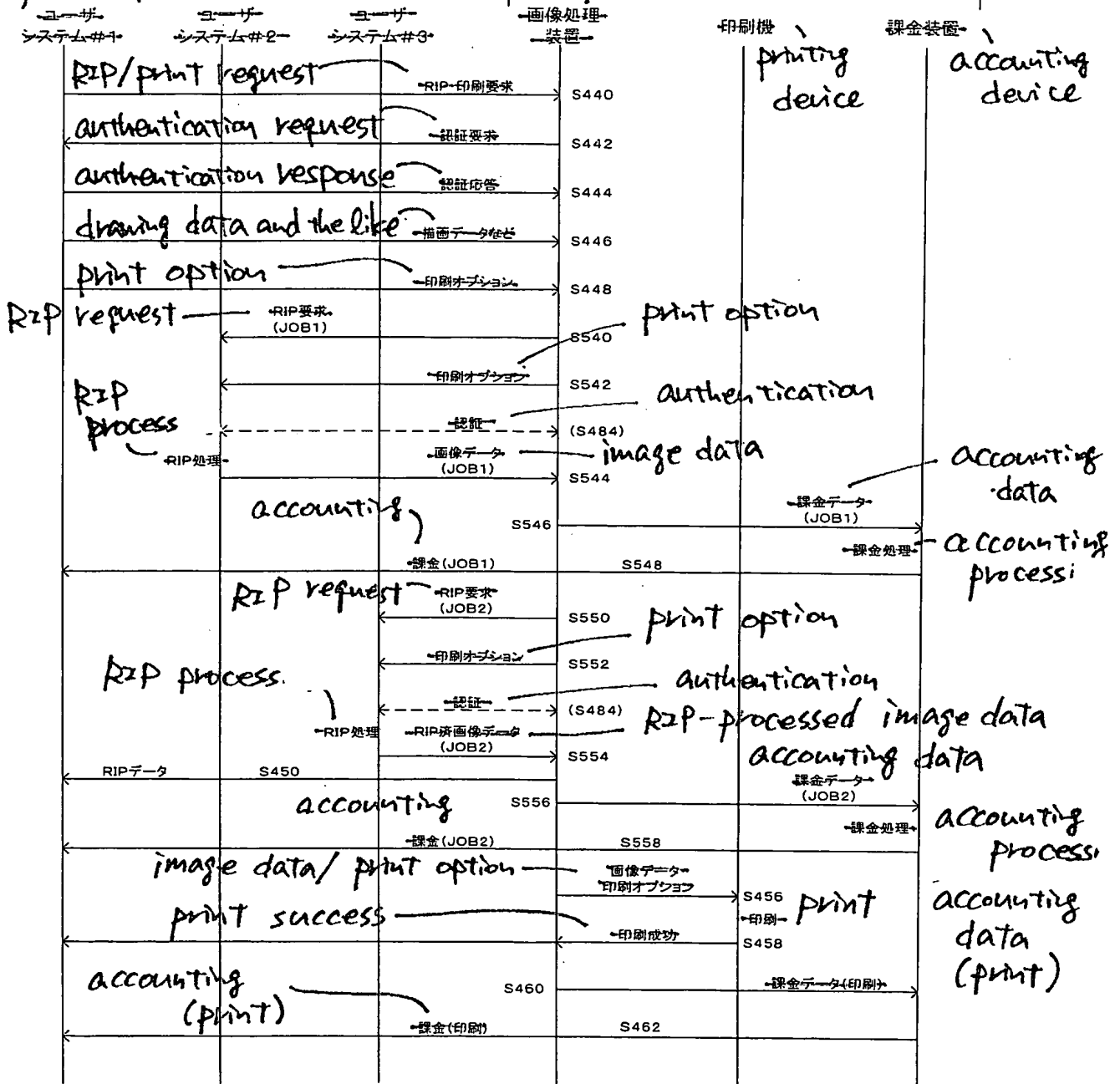
Fig. 32
user system #1

user system #2

user system #3

image processing device (print system)
印刷システム

30/52



分散RIP-印刷-割増し課金(S54)

decentralized RIP/print/extra accounting

Fig. 33
user system

accounting information

31/52

received decentralized RIP

ユーザシステム	課金情報	
#1	通常RIP	normal RIP
	要求した分散RIP	requested decentralized RIP
	受け入れた分散RIP	JOB-ii
	印刷	print
normal #2	通常RIP	JOB-i
	要求した分散RIP	JOB-ii, JOB-iii
	受け入れた分散RIP	
	印刷	JOB-i, JOB-ii, JOB-iii
#2	通常RIP	normal
	要求した分散RIP	JOB-iii
	受け入れた分散RIP	
	印刷	print

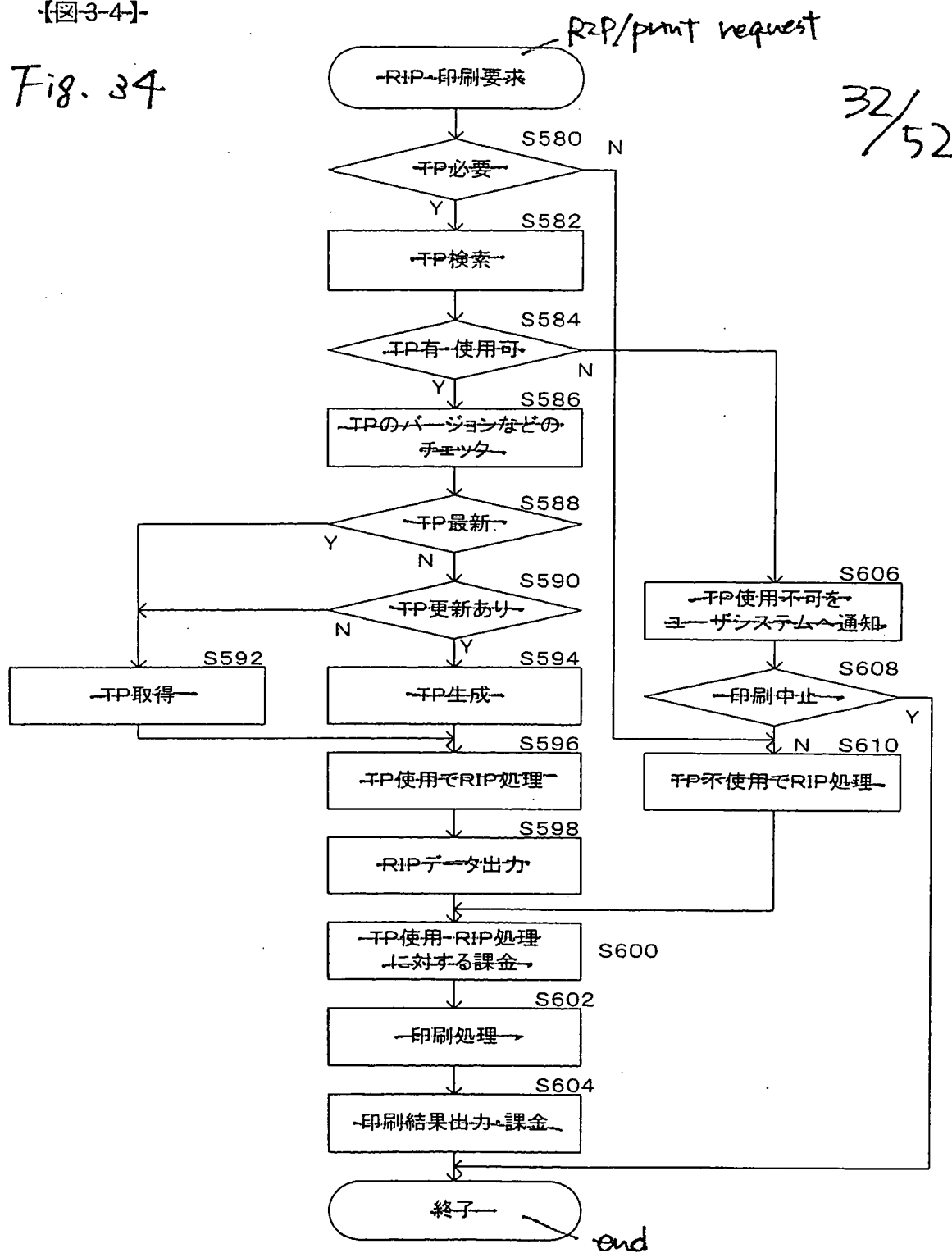
target of extra accounting

← 割り増し課金対象

← 割り引き課金対象

target of discount.

Fig. 34



TP検索・RIP・印刷 (S58)

TP retrieval / RIP / print

Fig. 34

S580 TP IS NECESSARY ?
S582 TP RETRIEVAL
S584 TP EXISTS/IS AVAILABLE?
S586 CHECK TP VERSION
S588 LATEST TP ?
S590 TP HAS BEEN UPDATED ?
S592 TP ACQUISITION
S594 TP GENERATION
S596 RIP PROCESS USING TP
S598 OUTPUT RIP DATA
S600 ACCOUNT FOR TP USE/RIP PROCESS
S602 PRINT PROCESS
S604 OUTPUT PRINT RESULT/ACCOUNT
S606 INFORM USER SYSTEM OF UNAVAILABILITY OF TP
S608 PRINT IS TERMINATED?
S610 RIP PROCESSING WITHOUT TP

【図3-5】

Fig. 35

user system

ユーザシステム

colorimeter device

image processing device

print system

印刷システム

printing device

33/52

画像処理装置

測色装置

印刷機 #1

印刷機 #n

S622-1

TP登録

測色-TP生成

S620-1

registration

S622-n

TP登録

測色-TP生成

S620-n

colorimetry/TP generation

TP生成登録(S62)

TP generation/registration

Fig. 36

user system

ユーザシステム

image processing device

colorimeter device

print system

accounting device

printing device

画像処理装置

測色装置

課金装置

印刷機 #1

印刷機 #n

RIP print request/
print option

RIP data

*RIP印刷要求
印刷オプション

S640

*RIPデータ

S642

S644

*TP使用-RIP課金

S648

print success

-印刷成功-

print accounting.

-印刷課金-

S654

TP retrieval/RIP process

*TP検索
*RIP処理

TP use/RIP accounting.

TP使用-RIP課金

S646

print request

印刷要求

print

print accounting

-印刷-

S650

-印刷課金-

S652

S654

TP検索-RIP-印刷(S64)

TP retrieval/RIP/print

【図3-7】

Fig. 37

colorimeter
device

accounting
device

34/52

user
system

image processing
device

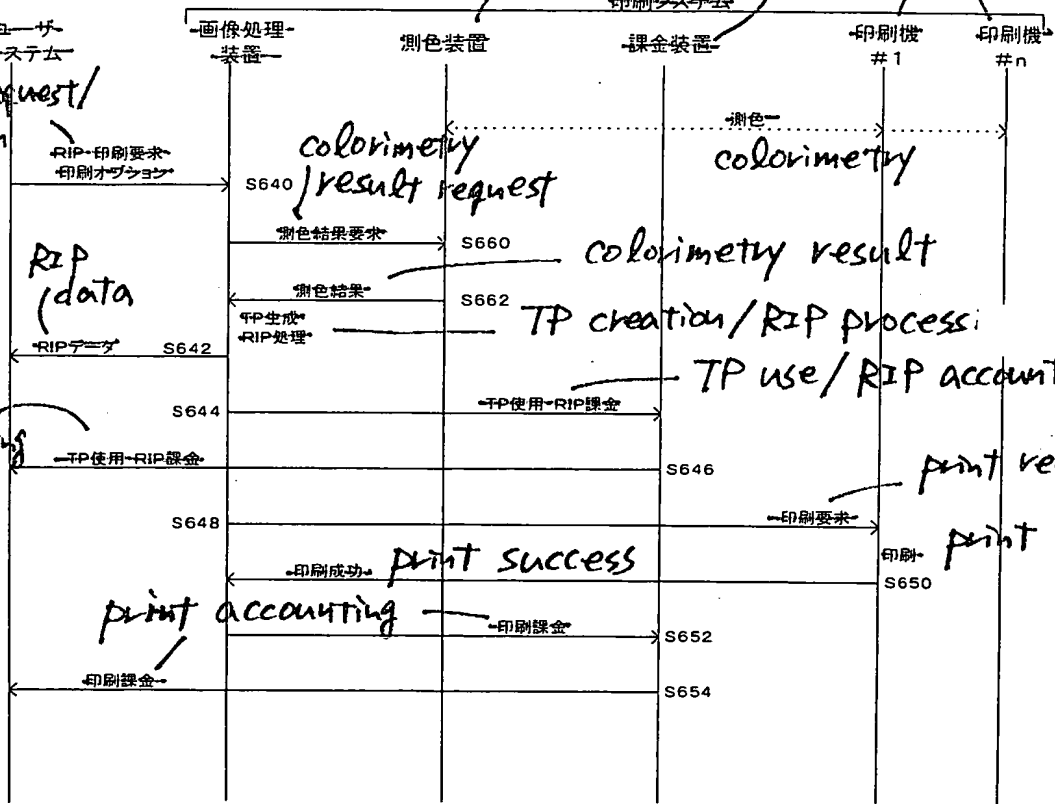
print
system

printing
device

RIP/print request/
print option

RIP
data

TP use/
RIP accounting



TP使用RIP・印刷(S66)

RIP with TP / print

【図3-8】

Fig. 28
user system

image
processing
device

colorimeter
device

print
system

accounting
device
printing
device

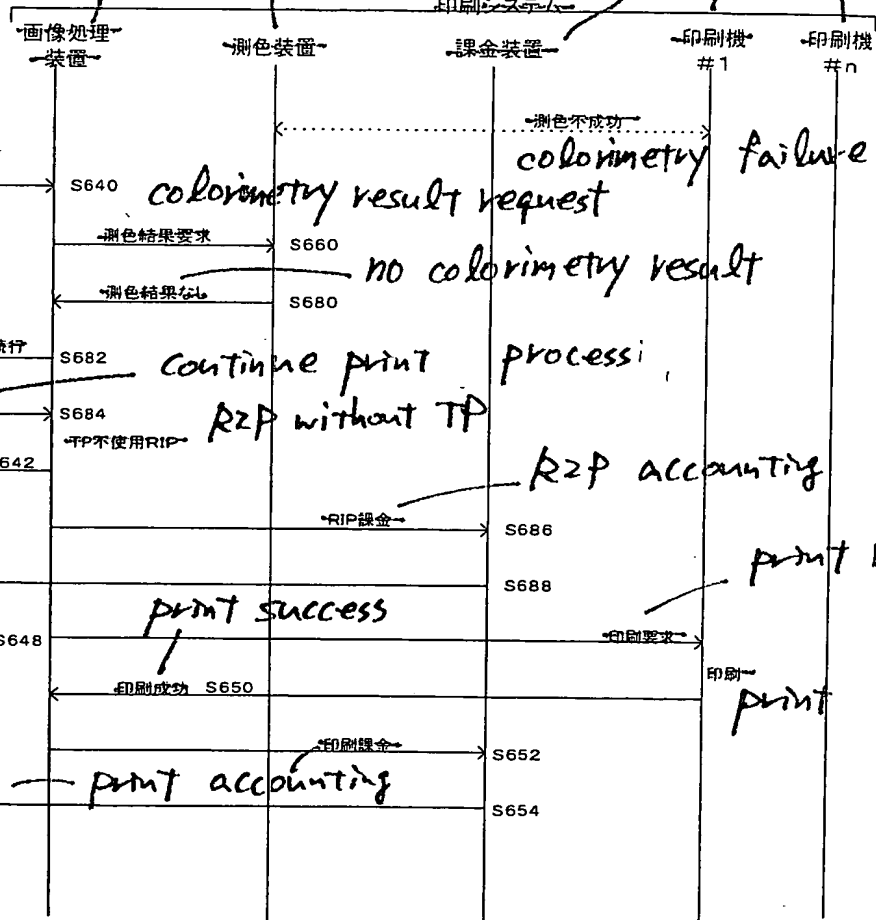
35/52

RIP/print
request/
print option

no TP/
terminate
print
process /
continue

RIP data

RIP accounting



TP不使用RIP印刷(S68)
RIP without TP/print

測色不成功
colorimetry failure

no colorimetry result

continue print process
RIP without TP

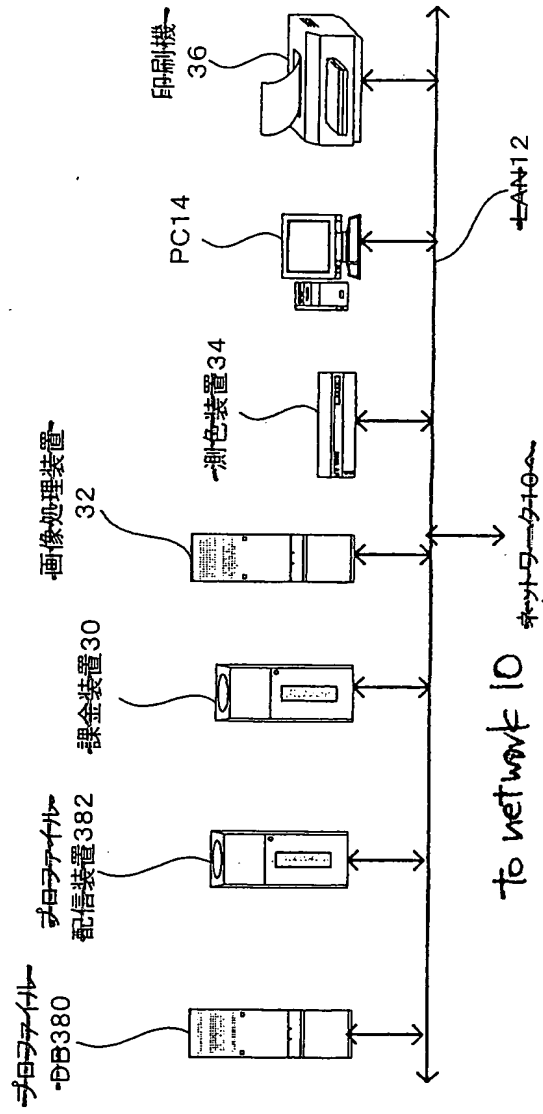
RIP accounting

print request

印刷
print

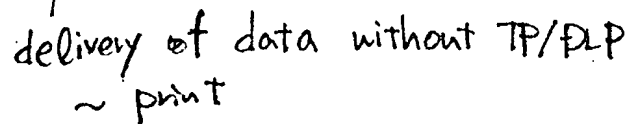
print accounting

Fig. 39



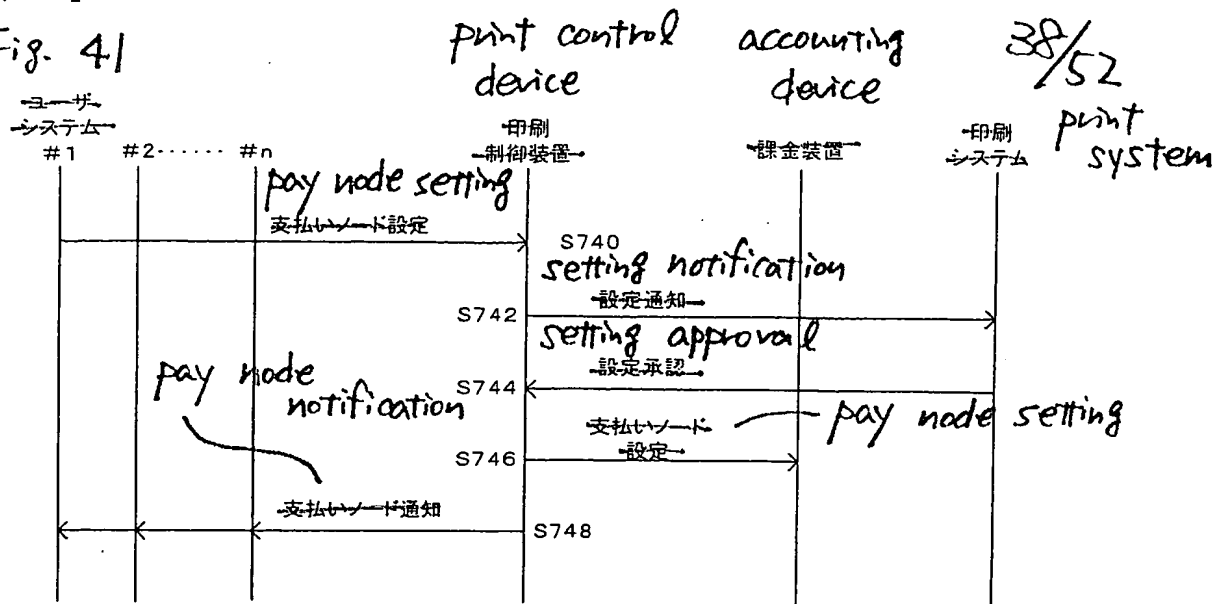
印刷システム38

36/52

$$\frac{37}{52}$$


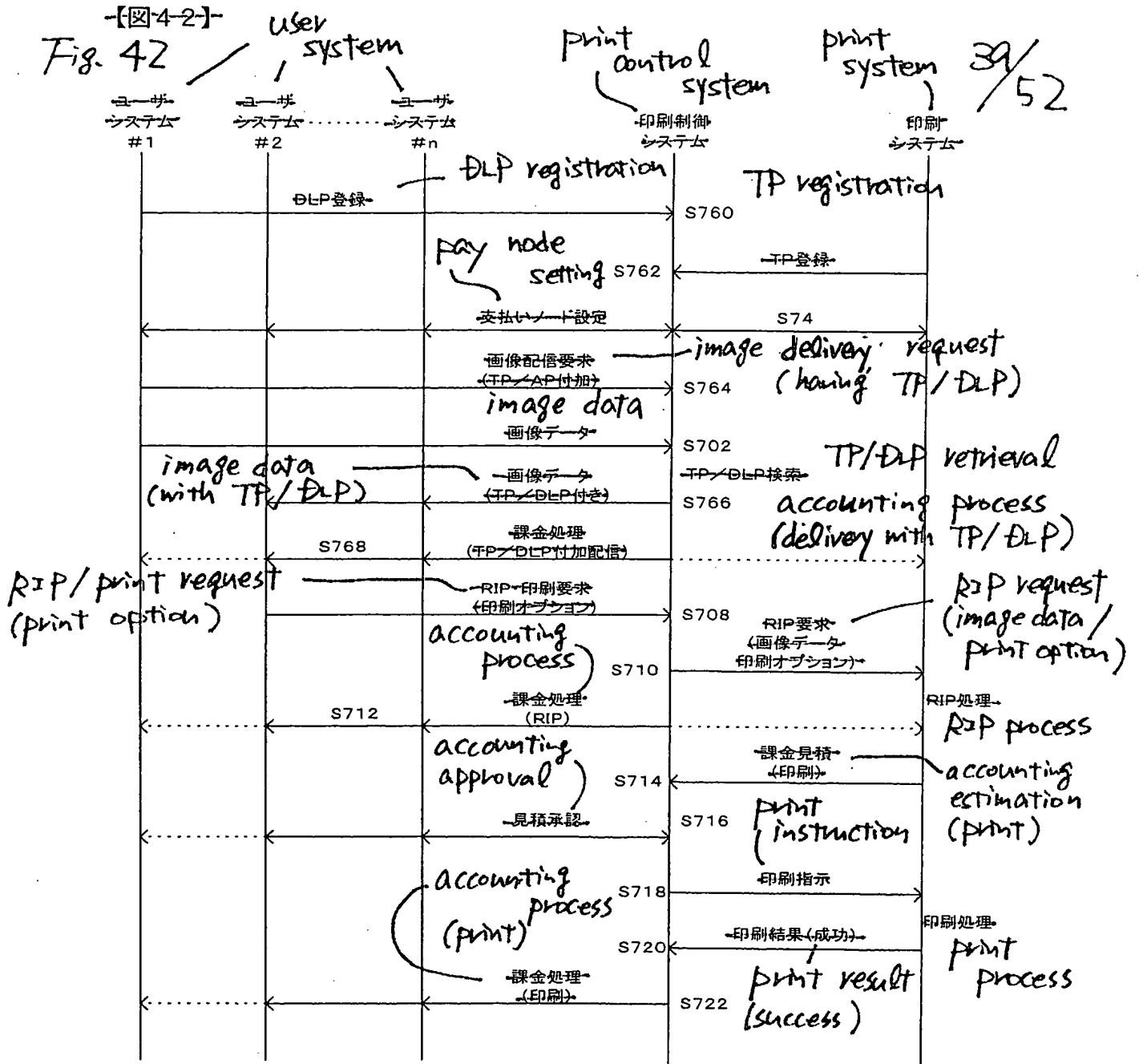
—【図41】—

Fig. 41



支払いノード設定(S74)
pay node setting.

Fig. 42

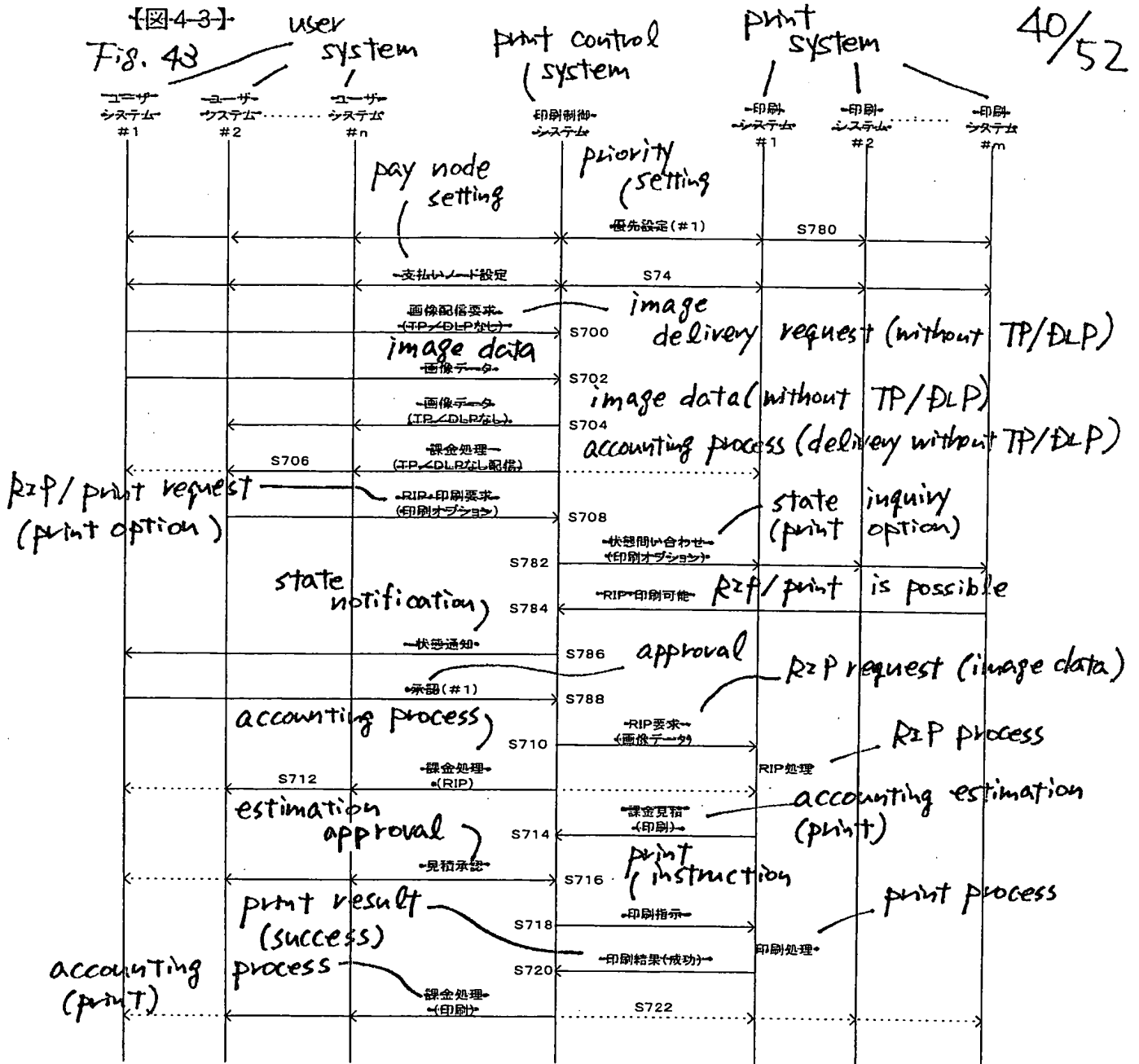


TP/DLP付きデータ配信 ~ 印刷
(S76)

data delivery with TP/DLP ~ print

Fig. 43

40/52



data delivery without TP/DLP ~ print

【図4-4】

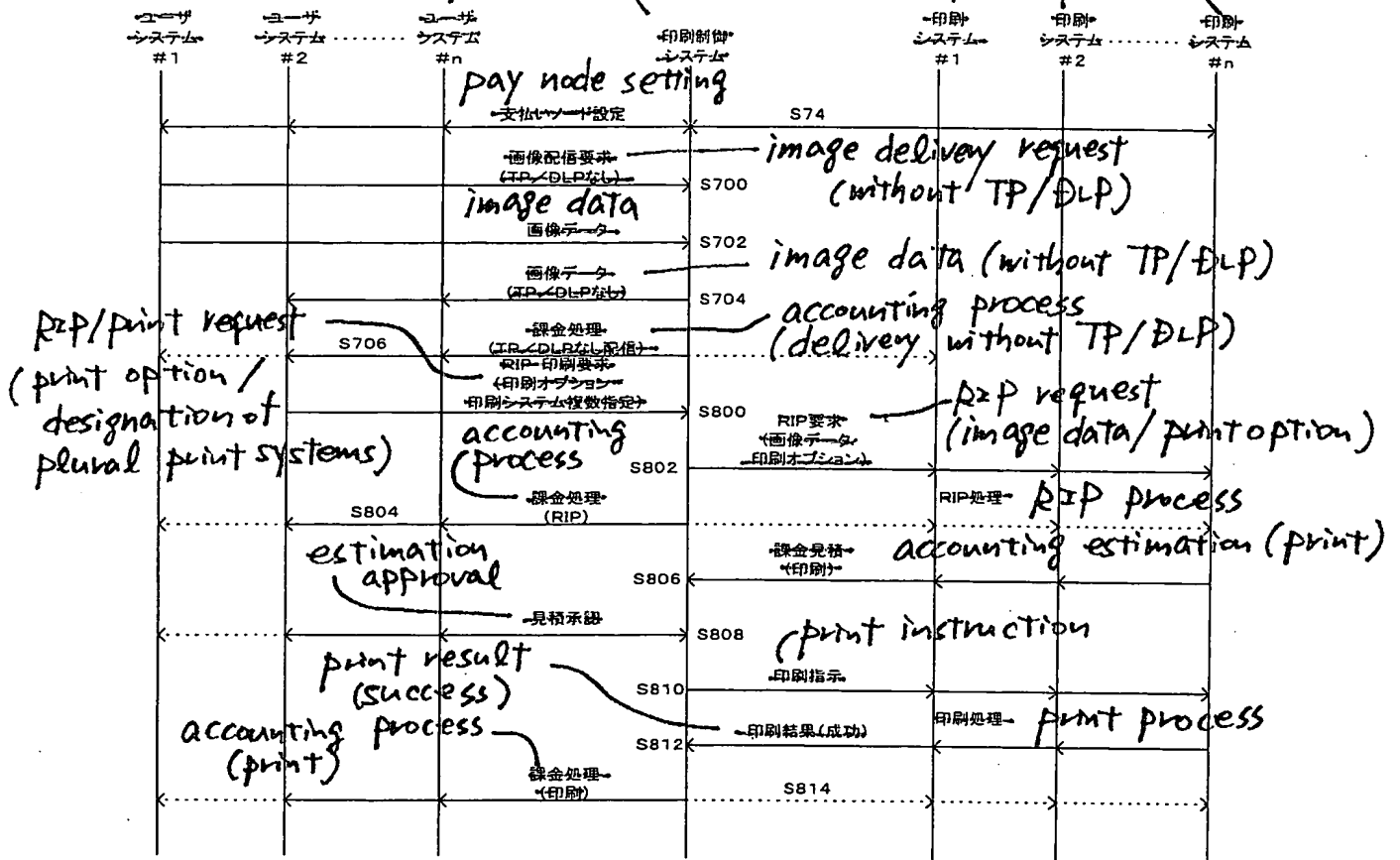
Fig. 44

user system

print control system

print system

41/52



TP/DLPなしデータ配信印刷 (S80)

data delivery without TP/DLP ~ print

Fig. 45

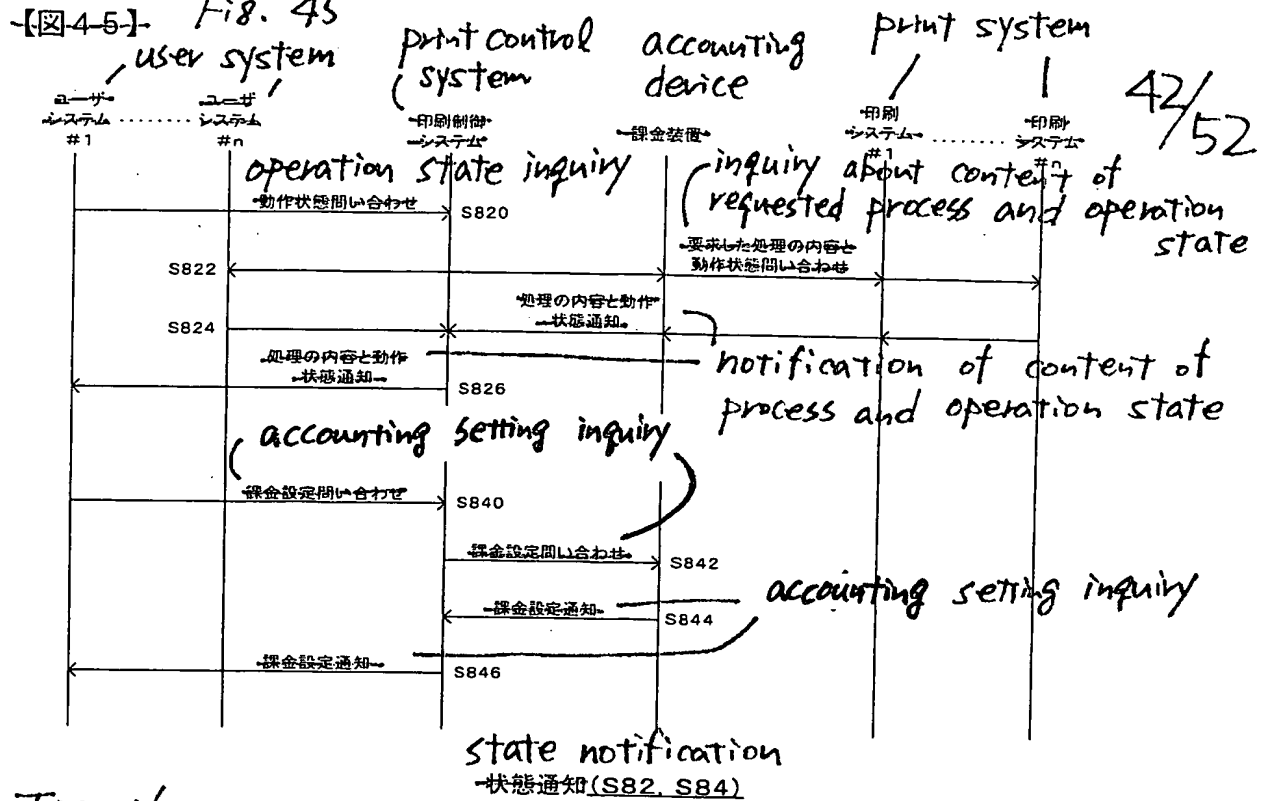
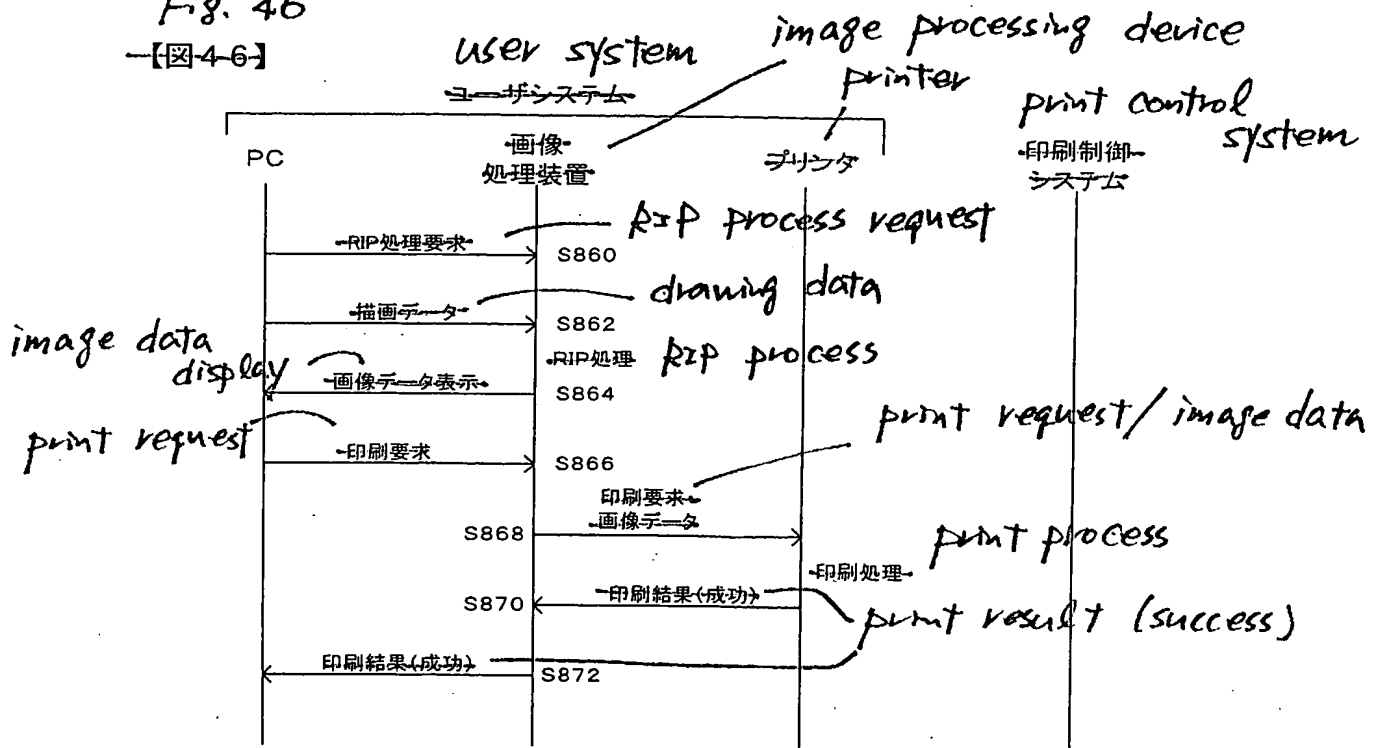


Fig. 46

Fig. 46



色補正要求がない
-RIP-印刷処理 (S86)

RIP/print process without
color correction request.

[図4-7]

Fig. 47

43/52

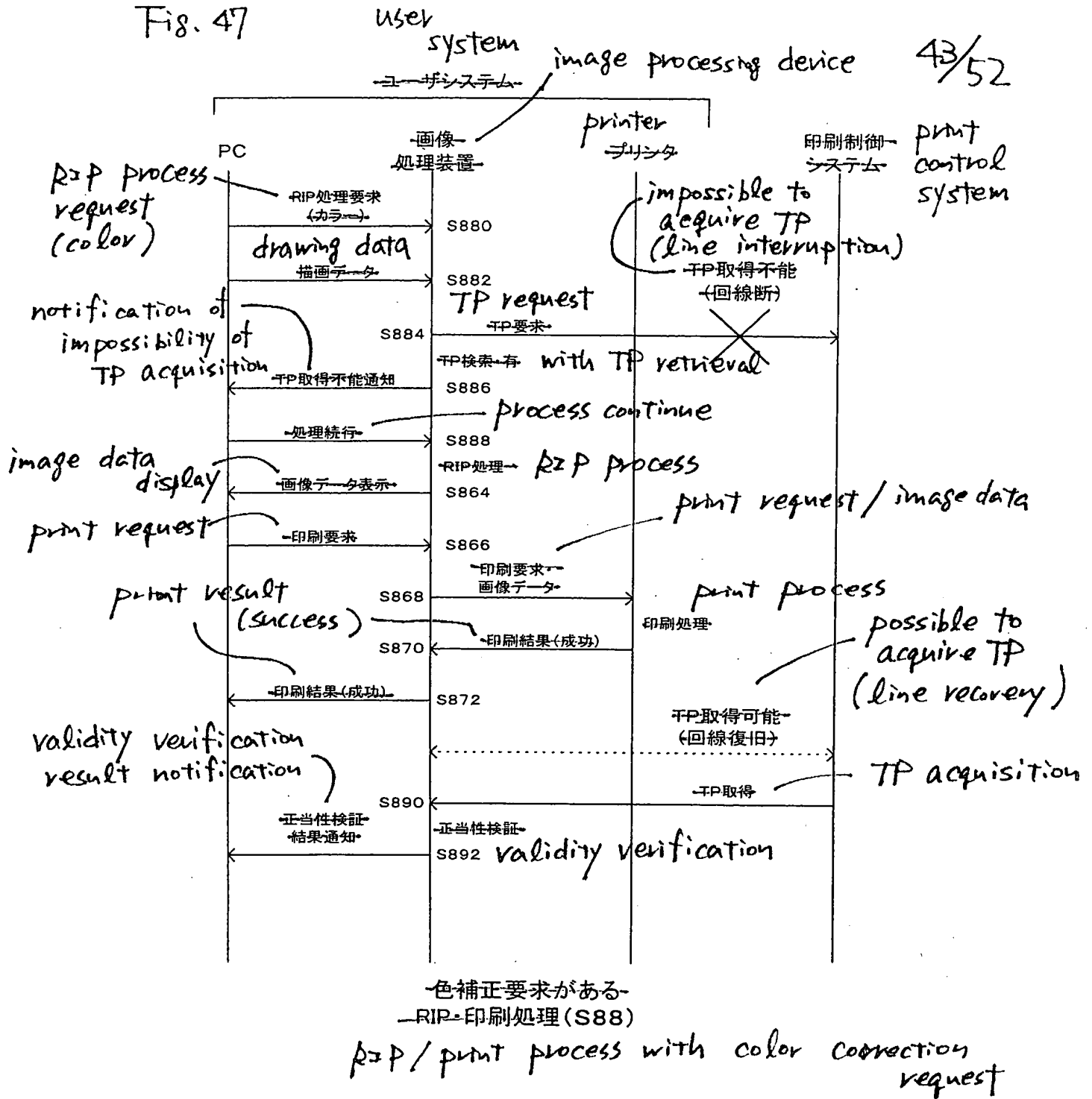
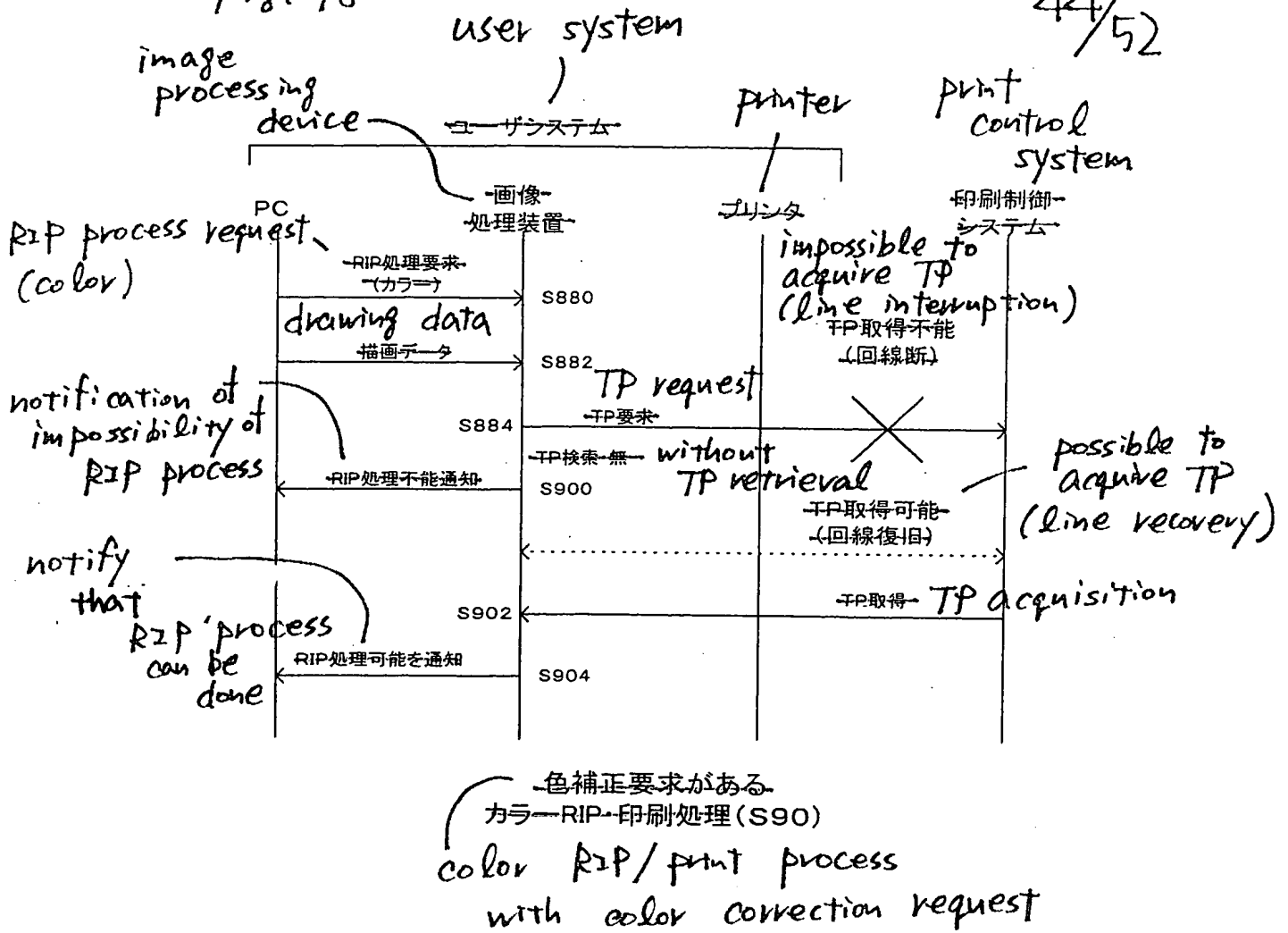


Fig. 48

44/52



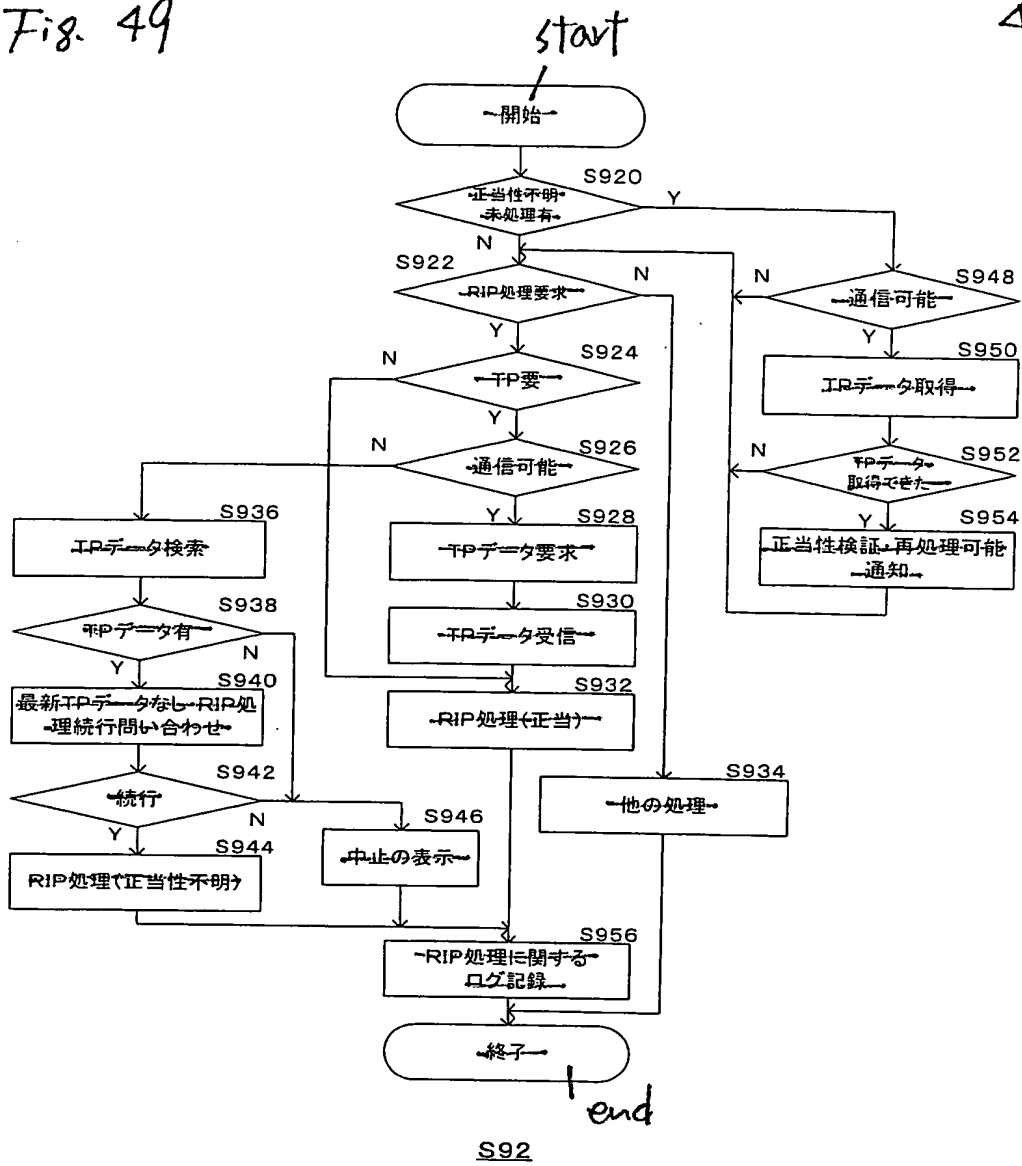
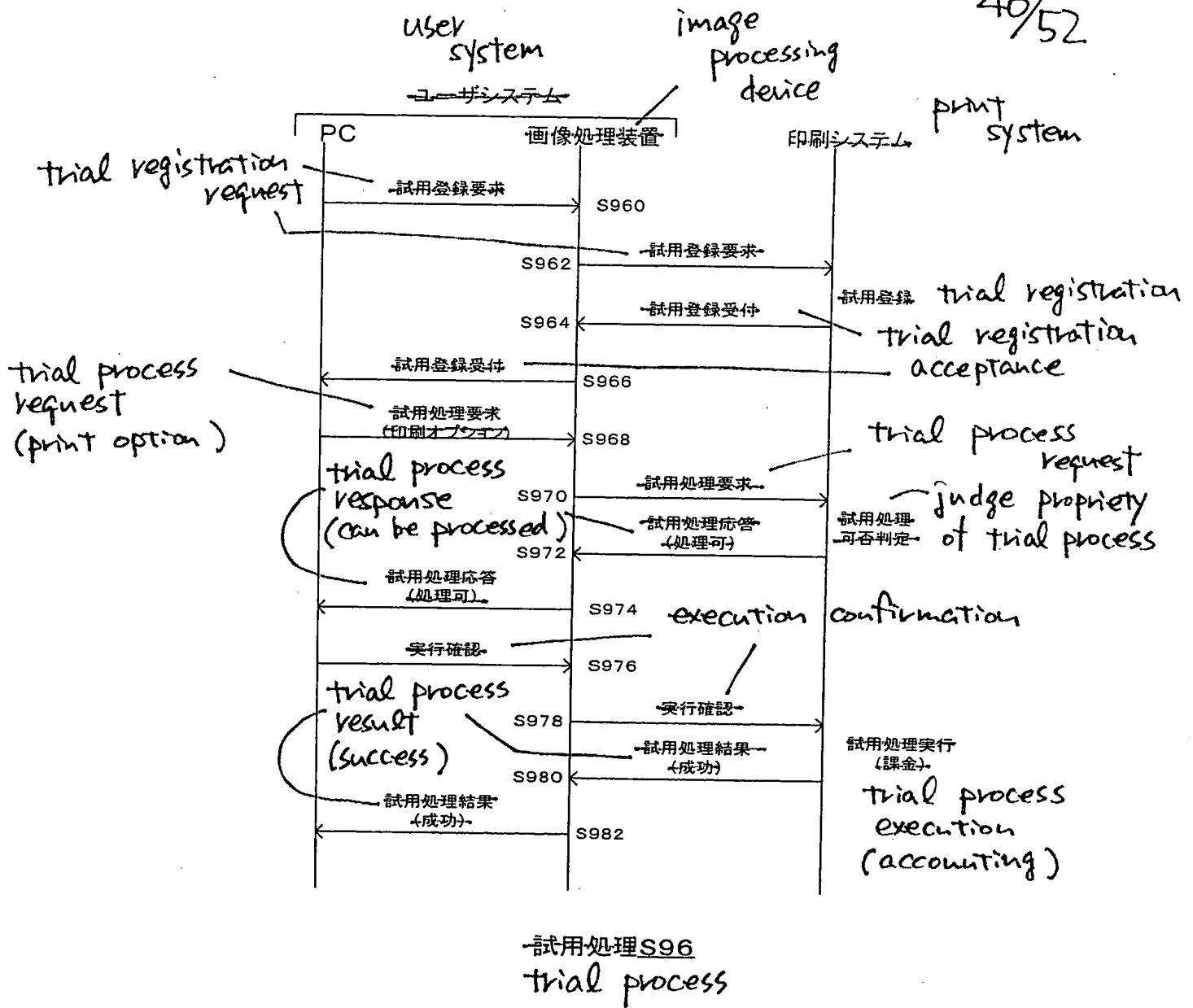


Fig. 49

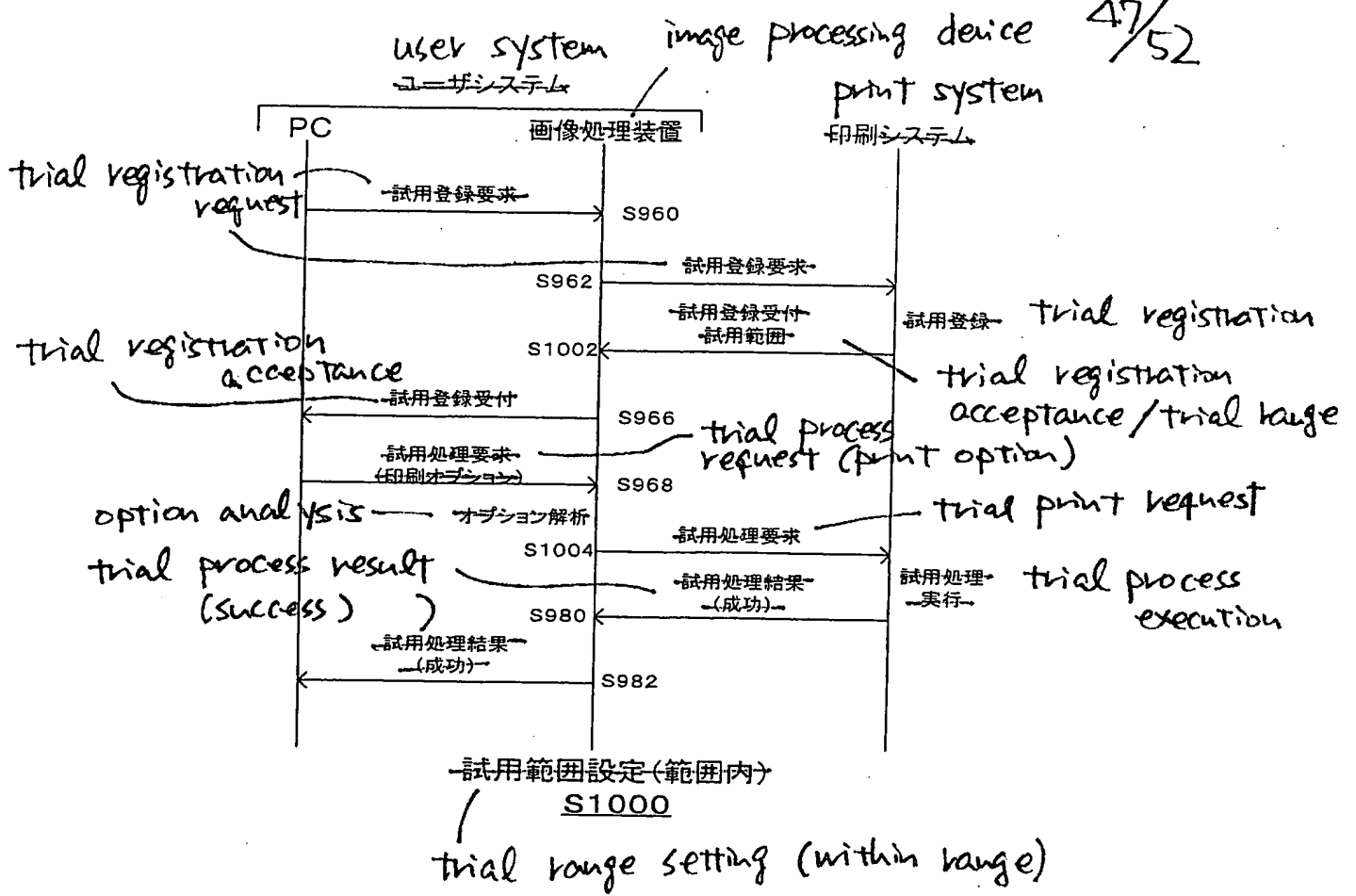
S920 VALIDITY IS UNKNOWN / THERE IS UNPROCESSED?
S922 RIP PROCESS IS REQUESTED?
S924 TP IS NECESSARY?
S926 COMMUNICATABLE?
S928 REQUEST TP DATA
S930 RECEIVE TP DATA
S932 RIP PROCESS (VALID)
S934 OTHER PROCESSES
S936 RETRIEVE TP DATA
S938 TP DATA EXISTS?
S940 THERE ISN'T LATEST TP DATA/ INQUIRE CONTINUATION OF RIP
PROCESS
S942 CONTINUE?
S944 RIP PROCESS (VALIDITY UNKNOWN)
S946 DISPLAY TERMINATION
S948 COMMUNICATABLE?
S950 ACQUIRE TP DATA
S952 TP DATA IS ACQUIRED?
S954 VERIFY VALIDITY / NOTIFY RE-PROCESSABLE
S956 RECORD LOG ON RIP PROCESS



【図5-1】

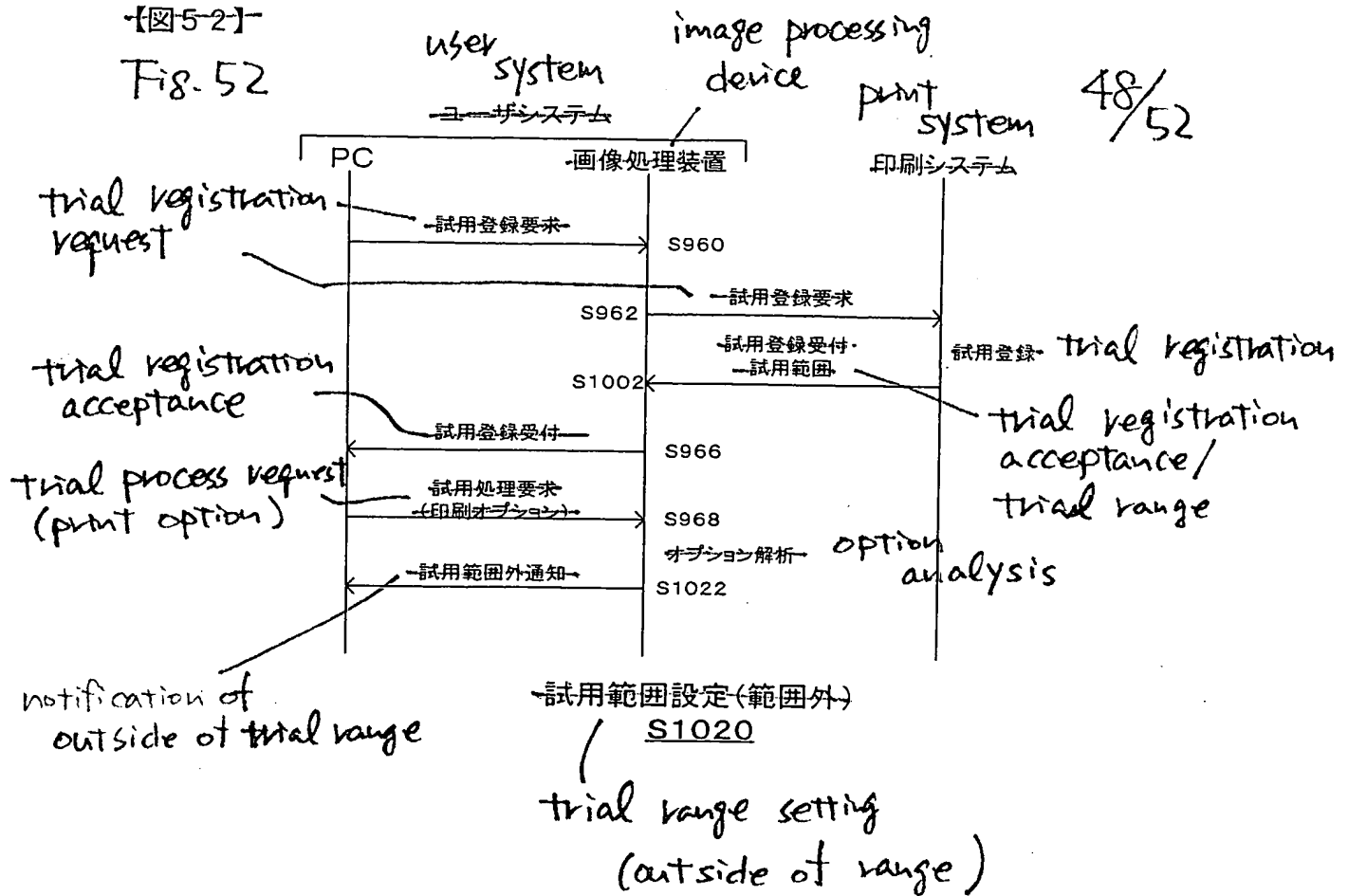
Fig. 51

47/52



【図5-2】

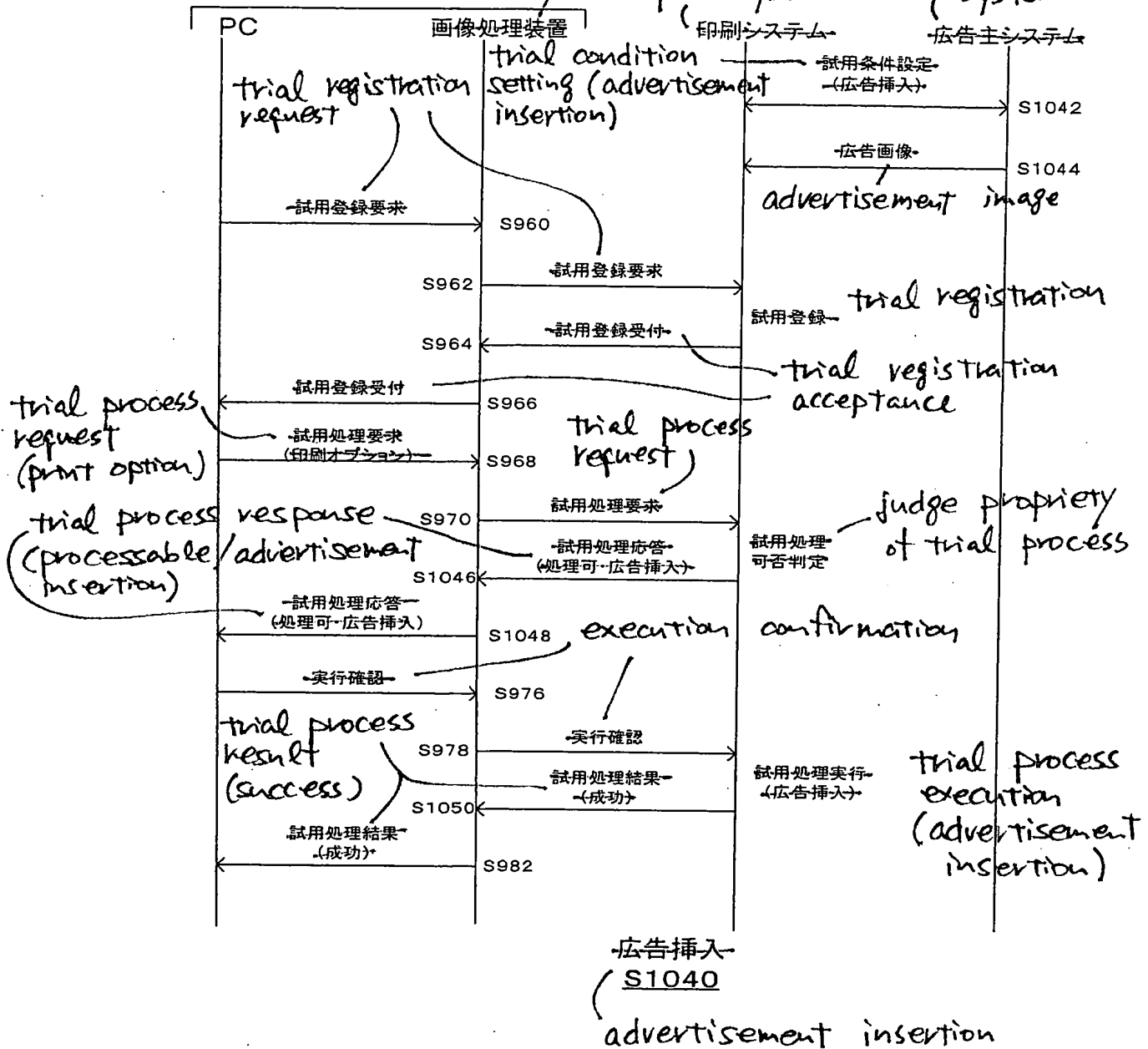
Fig. 52

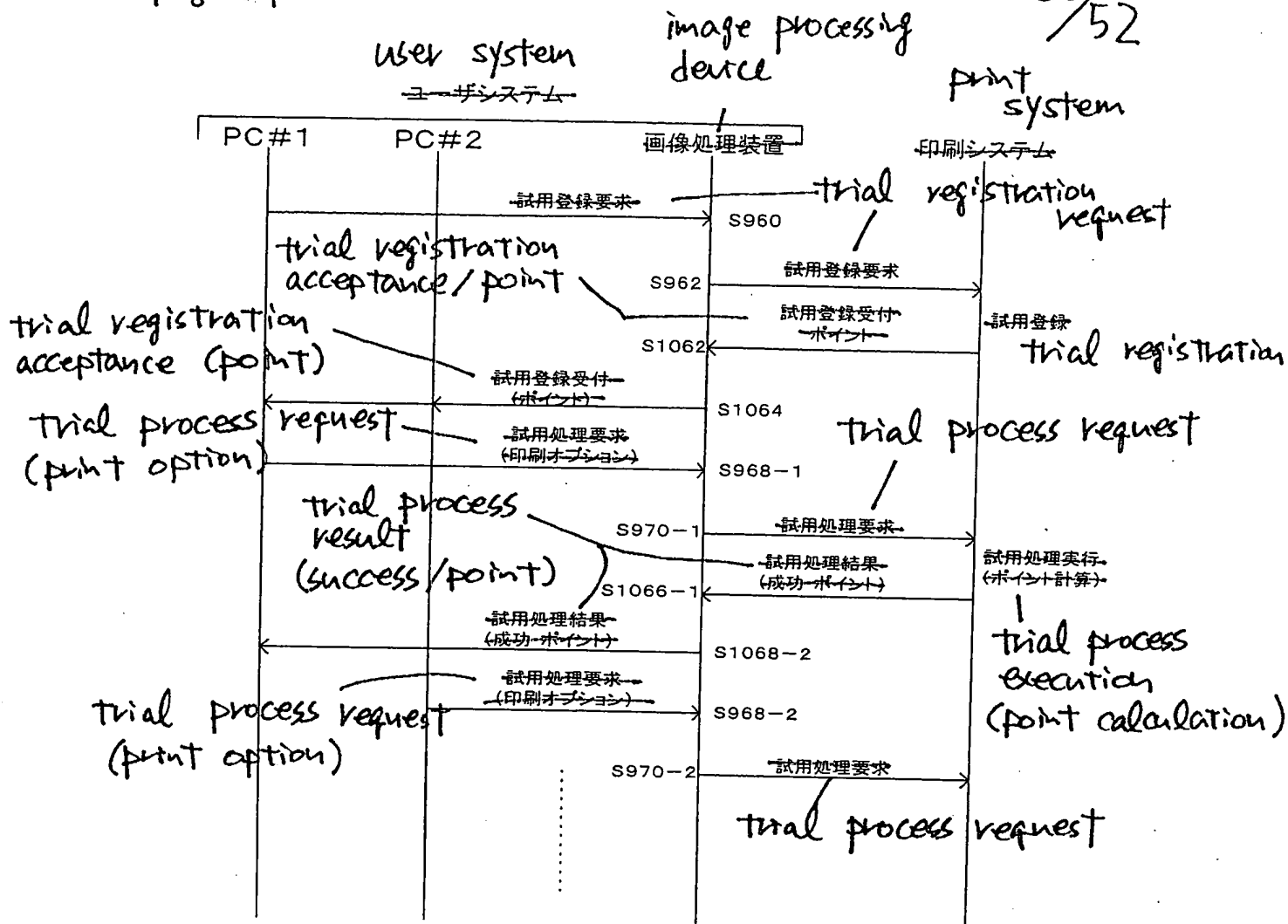


【図5-3】

Fig. 53 (user system image processing device)

advertiser 49/52
(system)





ポイント制(ポイント有)

S1060

point system (with point)

図 55

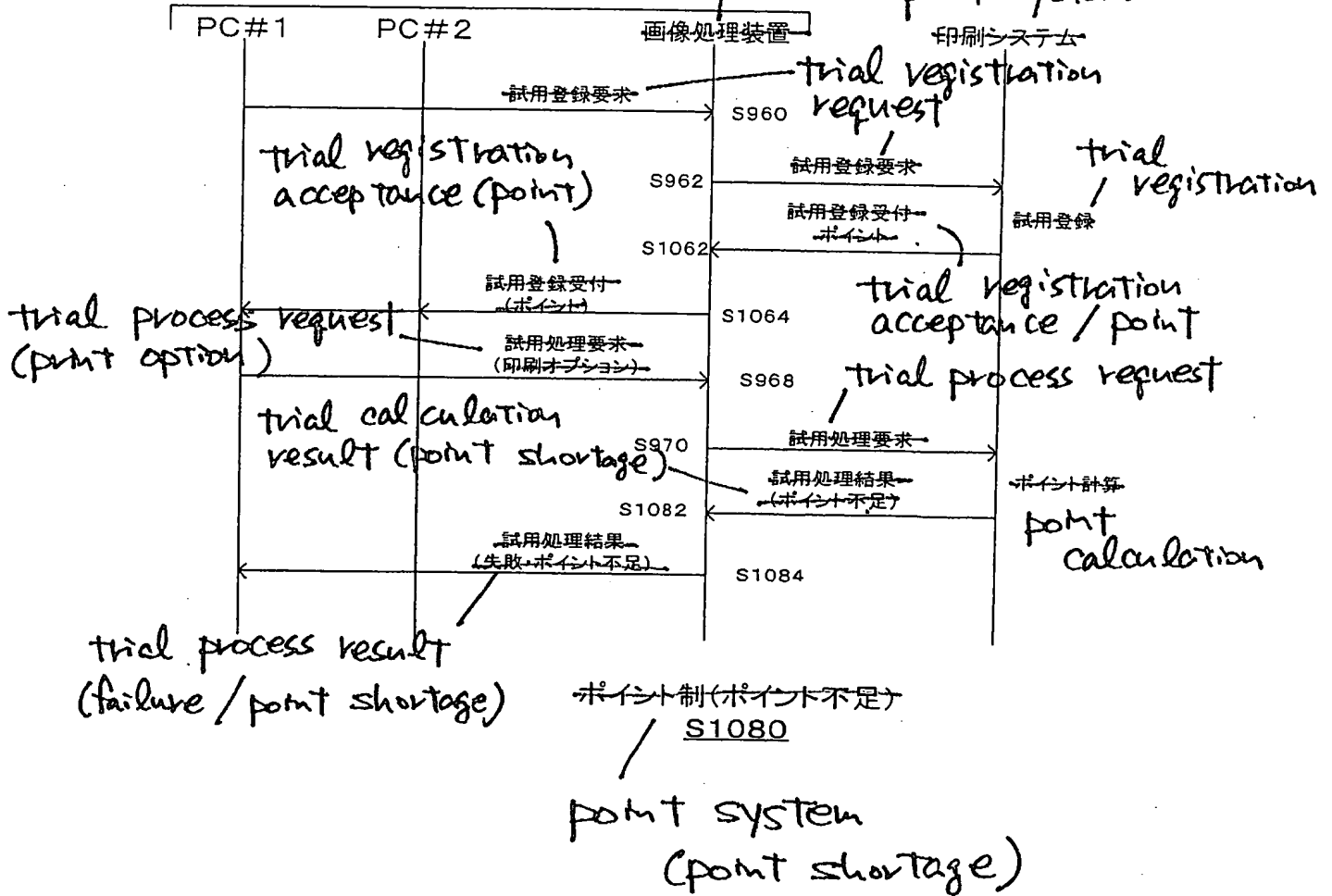
Fig. 55

image processing
device

51/52

user system

print system



-[図5-6]-

Fig. 56

image
processing
device

52/52

user
system

print system

ユーザシステム

印刷システム

PC 画像処理装置

trial registration
request

試用登録要求

S960

S962

試用登録要求

S964

試用登録受付

試用登録受付

S966

試用処理要求
(印刷オプション)

S968

S970

試用処理要求

S1102

試用処理応答
(範囲内)

試用処理応答
(範囲内)

S1104

実行確認

S976

実行確認

S978

試用処理結果
(成功)

S980

試用処理結果
(成功)

S982

trial process
request
(print option)

trial process
result
(success)

trial process
(request)

trial process response
(within range)

execution confirmation

試用処理実行
(範囲内、課金)

trial process
execution
(within range,
accounting)

trial
registration

acceptance

judge propriety
of trial process

試用処理S1100

trial process